featuring the new 1963

knight-kit

CATALOG (pages 1 to 69)

ELECTRONICS for everyone



1963
our 42ND year

CATALOG 220





ALLIED RADIO

100 N. WESTERN AVE. • CHICAGO 80, ILLINOIS • HAymarket 1-6800

Satisfaction Guaranteed or Your Money Back



You Benefit From These Buying Advantages

MONEY BACK GUARANTEE.

You must be satisfied with your Knight-Kit purchase or your money will be refunded.

NO MONEY DOWN buys any Knight-Kit. Use our Credit Fund Plan for 50% more buying power-take up to 24 months to pay.

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Test Instrument Kits	

the world's very finest electronic equipment in money-saving kit form . . . and so easy to assemble!

New! KG-4000 All-Transistor 1-Watt Citizens Band Walkie-Talkie Kit

Only

 Now—Professional-Quality All-Transistor 2-Way Radio With True Portability Plus a 5-Mile Range

9-Transistor Circuit—Powerful 1-Watt RF Input

Crystal-Controlled Transmit and Receive Channels

 Superhet Receiver has RF Stage, 2 IFs, Squelch, AVC, Noise Limiter, Push-Pull Audio Output

Knight-Kit leads again with this professional-quality transceiver kit that has 10 times the power of most walkie-talkies . . . a full 1-watt RF input for reliable 2-way communication for up to 5 miles! Superhet receiver has automatic noise limiter and variable squelch to reduce background noise, and to keep speaker silent between calls. Distance-Local switch and AVC stop receiver distortion caused by nearby units. Also: handy press-to-talk button; relative RF output indicator for maximum-power adjustment; plug-in crystal sockets; 52" whip antenna; external-antenna jack; jack for earphone or external speaker. Built-in mike and speaker are weather-protected. Weighs 32 oz. 9 transistors, 3 diodes. Less batteries, crystals (requires 1 transmit and 1 receive, below). With FCC-permit application form; tough, tan plastic case; wire, solder; easy instructions. Plastic carrying strap. 10\% x3\5/8 x4^17/32". Shpg. wt., 2\/2 lbs.

83 YX 803—J. \$5 Monthly.....ONLY 59.95

83 Y 012-J. "C" Batteries for Above. Uses 8. Wt., 2 oz. . . EACH 14¢ 83 Y 011-J. Rechargeable Battery / Charger / AC Power Supply Kit Heavy-duty nickel cadmium cell replaces the 8 "C" cells; may be recharged many times. Charger unit permits KG-4000 to be operated from 115 VAC while charging battery. 1 lb. ONLY 19.95

83 Y 047-J. Adapter for 12-v. Use. Plugs into cigarette lighter of auto. With cable. Shpg. wt., 6 oz. NET 1.00

83 Y 041—J. Receiving Crystals. Specify ch. 1-22. 3 oz... EA. 2.50

83 Y 034—J. Transmit Crystals. Specify ch. 1-22. 3 oz.... EA. 2.50

SPECIFICATIONS. Receiver. Crystal-controlled superheterodyne. Sensitivity, better than 1 μ v for 10 db s/n ratio. Selectivity, 6 db.@ 6½ kc Image Rejection, 12 db. Adjacent Channel, 30 db down. Audio Output, 750 mw class B push-pull. Transmitter. Crystal-controlled (any CB channel, 1-22). RF Input, 1 watt. RF Output, 0.5 watt. Power Supply. Operates up to 50 hrs. on 8 size C flashight cells, or or rechargeable nickel cadmium cell (optional); has provision for operation from external 12 VDC source.

ALLIED RADIO CORPORATION

100 N. WESTERN AVE. . CHICAGO 80, ILL.

OFFICE OF THE PRESIDENT

Dear Friend:

You will see on the following pages all the newest developments in electronics. You have the world's largest selections at your command. And the big, important news is this: More than ever, your money goes further at Allied.

You will be especially interested in the following highlights:

You get more with your Allied Credit Fund Plan—yes, more buying power for the same low monthly payments—read the details beginning on the next page.

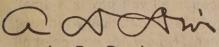
You get more with exciting new Knight-Kits® and Knight® products—see the latest developments in quality build-your-own electronics equipment—advanced new Stereo hi-fi, new CB radios, new ham gear, new hobby kits—at worthwhile savings.

You get more in extra-special values—"bonus buys" and Allied exclusives selected for our old-time friends and for new customers—see the last six special pages of this catalog.

Over and over again, you will find in this catalog proof that your money goes further at Allied.

As always, you can buy with confidence, because we guarantee satisfaction or your money back.

We welcome every opportunity to save you time and money, and to satisfy you completely.



A. D. Davis

NOW! MORE BUYING POWER with your ALLIED CREDIT FUND

now you get even more for the same low monthly payment!

get these outstanding advantages

1	More buying power—your Allied Credit Fund Plan gives you more than ever
2	Not a penny down required
3	Take up to 24 months to pay
4	A definite amount is set aside in a Credit Fund for your use
5	Make "add-on" purchases at any time
6	You always know where your account stands —you get a full statement each month
7	Your Credit Fund automatically increases every time you make a payment

plus benefits

A single low monthly payment brings you anything Allied sells. You save money, because all you pay is a small monthly service charge, which is automatically reduced every time you make a payment. No service charge at all if paid in 30 days.

NOW! New Lower Terms Greater Buying Power than ever with your ALLIED

CREDIT FUND PLAN

NEW EXTRA BUYING POWER LIKE THIS:

FOR ONLY \$5 MONTHLY YOU CAN BUY UP TO \$100

4 SEE DETAILS

enjoy everything you need and want in electronics—today..!





NOW! MORE BUYING POWER with your ALLIED CREDIT FUND

now you get even more for the same low monthly payment!

get these outstanding advantages

1	More buying power—your Allied Credit Fund Plan gives you more than ever
2	Not a penny down required
3	Take up to 24 months to pay
4	A definite amount is set aside in a Credit Fund for your use
5	Make "add-on" purchases at any time
6	You always know where your account stands —you get a full statement each month
7	Your Credit Fund automatically increases every time you make a payment

plus benefits

A single low monthly payment brings you anything Allied sells. You save money, because all you pay is a small monthly service charge, which is automatically reduced every time you make a payment. No service charge at all if paid in 30 days.



make full and regular use of your Allied Credit Fund

HAVE CONTINUOUS BUYING POWER

The Allied Credit Fund Plan makes possible your immediate enjoyment and use of everything you want in electronics! It places at your command a definite, always-known credit fund that now can give you MORE in buying power for the same low monthly payment. Just open an Allied Credit Fund Account. Use it any time. Buy what you want without a penny down. Use it for "add-on" purchases any time—still no money down. Enjoy maximum buying power with your Allied Credit Fund!

Here are the ALLIED CREDIT FUND highlights and advantages:

You always know what you have in your Credit Fund. You know exactly how much buying power you have, from the moment you open your account and place your first order. When you make purchases they are charged against your Credit Fund. Each payment you make decreases the balance due and at the same time increases your credit. The monthly statement we send you shows clearly how much unused credit you have.

Shopping is quicker, easier. You never have to figure freight or delivery charges—we prepay them. We send your orders prepaid and add the charges to your account. You don't have to keep extra cash on hand to pay C.O.D. charges—there's no fuss or bother.

You pay only for what you use. For instance, your Credit Fund may have been set at \$400 on the basis of an \$18 monthly payment, but if your order is for only \$220, your monthly payment will be only \$11.00 (see Table, next page).

Make "add-on" purchases at any time. This is a big advantage. You don't have to complete payments on a previous purchase to make a new purchase. In most cases, there's no change in your monthly payment. To illustrate: Suppose you have a balance of \$50 on a purchase of \$160. You have been paying \$8 per month. You can now order up to \$110 more for the same \$8 per month. If your "add-on" order is for more than \$110,

your monthly payment will be adjusted in accordance with the terms in the Table on the next page.

Only your signature on "add-on" orders. After your first order, your signature in the space provided on the back of the order blank is all you need to make your purchase. There is no minimum on "addons," and no further information or down payment is required.

No complicated records for you to keep—no bookkeeping problems. We send you a personal statement of your account every month. It shows your purchases, payments, unpaid balance, and most important—the amount of unused credit you have available. Remember—you pay only for what you use.

There's only a small service charge. A service charge of only $1\frac{1}{2}$ % is added to your monthly balance. The exact amount is shown in your statement, and it's reduced each time you make a payment. No service charge at all if paid in 30 days.

Your Allied

CREDIT FUND

now gives you

EXTRA BUYING POWER

for the same low monthly payment

here's how the Allied CREDIT FUND works:

When you first open an Allied CREDIT FUND account, we set up a Credit Fund in your name. It allows you a definite amount which we set aside in a Fund for your use. Buy anything you want without a penny down—covers "add-ons," too.

You always know exactly how much more credit is available to you. Under the CREDIT FUND Plan, you can actually enjoy more

buying power than ever before possible for the same low monthly payment. Example: For a monthly payment of only \$20.00 you can now buy in the amount of \$480.00, as compared to \$400.00 under the old regular terms.

SEE HOW MUCH MORE YOU CAN NOW BUY FOR THE SAME LOW MONTHLY PAYMENT

tages of an Allied CREDIT FUND, fill in the application on the back of our order blank, and send it in with your order.

No Down Payment Required

TO OPEN YOUR ACCOUNT. To enjoy the advan-

No down payment is required on any purchase you make on your Allied Credit Fund Plan. You can use all or any portion of the amount in your Fund. Your monthly payments depend on the amount you use (see Table at right).

Each time you buy, you draw against your Fund, but each payment you make goes toward building up *more* and *more* credit. This means you can "add-on" new orders at any time.

ONLY YOUR SIGNATURE ON "ADD-ON" ORDERS

You can "add-on" orders at any time for the unused amount in your fund with no money down. Just sign your order in the space provided. You may determine your monthly payment in the following way:

- 1. Combine amount of your "add-on" order with your present unpaid balance.
- 2. See Table at right to find proper monthly payment for new unpaid balance.
- 3. If the monthly payment is the same or less than the amount you are currently paying, no change in your monthly payment will be required.
- 4. If monthly payment for your "add-on" order, plus your present unpaid balance is more than you currently pay, we will show the new monthly payment on your next statement.

SIMPLEST, EASIEST PLAN. Because you get a detailed personal statement each month, you don't have to bother with bookkeeping. You can check accuracy in seconds. Because all shipping charges are prepaid and included in your account, there's nothing to figure. Your Credit Fund Plan is the last word in low-cost convenience.

FOR FULL CREDIT FUND
DETAILS, SEE PAGE 456

Credit Fund Payment Table

Monthly Unneid Dela

Monthly Payment	(Total amount less any down payment)
Only	Buys Up To
\$ 5	\$100
\$ 6	\$120
\$ 7	\$140
\$ 8	\$160
\$ 9	\$180
\$10	\$200
\$11	\$220
\$12	\$240
\$13	\$260
\$14	\$280
\$15	\$310
\$16	\$340
\$17	\$370
\$18	\$400
\$19	\$440
\$20	\$480
\$21	\$500
\$22	\$525
\$23	\$550

OVER \$550—Monthly payments will be in proportion to amounts on chart.

SMALL SERVICE CHARGE. Only a small service charge of 1½% is added to your monthly balance. There are no other charges. Your monthly statement shows exactly what you pay, what you owe and how much unused credit you have.

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CONDENSED INDEX
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guarantees your
complete satisfaction
OR YOUR MONEY BACK

this is the Allied Pledge

- to save you time and money
- to ship speedily and safely

 most Allied orders are filled
 and on their way to you within
 24 hours after being received.
- to satisfy you completely

 every item you buy from us
 must satisfy you in every way or
 we want you to return it for
 exchange, repair or refund...

ALLIED RADIO CORPORATION

100 N. WESTERN AVENUE . CHICAGO 80. ILL.

Phone: HAymarket 1-6800 (AREA CODE 312)

the world's largest electronic supply house

our 42nd year of service



features, this magnificent transceiver kit offers crystal-controlled transmitter and receiver sections that operate on any 5 switch-selected channels-or flip the switch and manually tune receiver section through all 22 channels. Edge-illuminated front panel beautifully displays controls. 5-watt transmitter section has RF output indicator. Sensitive superhet receiver section has two 1650-kc IFs, planetary-drive vernier tuning, variable squelch, AVC, noise limiter, 3" speaker. 12 tube-functions. 4-9/16 x 10-13/16 x 10-1/2". With wire, solder, press-to-talk mike, instructions. Less crystals, below. For 110-125 v., 60 cycle AC or 12 VDC. Shpg. wt., 12 lbs.

83 YX 802-J. \$5 Monthly......ONLY 69.95

83 YX 801-J. Standard Model. For fixed-station use. For 110-

83 YX 009-J. Mobile Mtg. Bracket. For C-22. 3 lbs. ONLY 4.95

83 YY 046-J. Transmitting Crystals. Specify channels 1-22. (C-22 accommodates 5). Wt., 3 oz..... EACH 2.50

83 YY 045-J. Receiving Crystals. Specify channels 1-22. (C-22 accommodates 5). Wt., 3 oz..... EACH 2.50

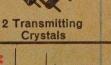
SPECIFICATIONS. Receiver: Sensitivity, 1 µv for 10 db s/n ratio; Selectivity,-6 db @ 6.5 kc; Adjacent Channels, 25 db down; Audio Output, 2½ watts. Transmitter: RF Output, 3 watts; 54-mc harmonic trap; adjustable pi-net output. Controls: On-Off/Vol.; Squelch; Crystal-Tune/Channel Selector; Tuning; Noise Limiter.



CB System

\$9 monthly





Cable and Connectors



Mobile Mounting Bracket

Mobile Whip, Bumper Mount

2 Receiving

SAVE \$9.05. Includes: 2 Knight-Kit C-22 Transceivers (1 Standard, 1 Universal); Choice of any 2 Transmitting and any 2 Receiving Crystals; Mobile Mounting Bracket; Whip Antenna with Bumper Mount; Ground-Plane Antenna; 65-Ft. RG/58U Cable; 3 connectors. 46 lbs.

21 HF 061-J. Specify channels 1-22. ONLY 163.95



The New Sound of Stereo





New! knight-kit® KG-60 all-transistor

50-WATT STEREO AMPLIFIER KIT

Only \$7995

Less Case

- Direct-Coupled Output—No Transformers or DC Blocking Capacitors in Output Stage
- Efficient 20-Transistor, 6-Diode Circuit
- Plays Instantly—Requires No Warm-Up Time
- No Microphonics-Virtually No Hum or Noise

The amplifier of the future—yours todayl A refined version of our famous KX-60, the KG-60 has all of its predecessor's tremendous features plus a host of important advances to give you all the advantages of up-to-theminute audio technology. Look what's NEW: 4-ganged volume control for virtually linear operation at all levels... handy plug-in transistor sockets... specially engineered PC board that prevents short circuits... and easy-access modular construction. Use of the finest transistors assures unparalleled performance—and there's virtually no heat.

The precision circuit develops a full 50 watts of IHFM music power

that is directly coupled to your speakers—there are no transformers or DC blocking capacitors. This engineering breakthrough gives you reproduction that is so strikingly clean, true and pure—even in the extreme low-frequency range—that it must be heard to be believed. Response: ±1 db from 20 to 20,000 cps at full rated output. Thanks to the miracle of transistors, you enjoy freedom from microphonics and mechanical noise, instant warm-up, extremely low current-drain, compact size, and hardy construction that ignores jolts and vibration. Other highlights: dual-concentric clutch-type bass and treble controls; independent recording outputs; regulated power supply. Works with any

speaker-regardless of impedance. With instructions, wire, solder.

23/4 x 11 x 91/4". Less case. For 110-125 v., 60 cycle AC. 8 lbs.

SPECIFICATIONS. Response: ±1 db, 20-20,000 cps at 50 watts. Harmonic Distortion: Below 1% at 50 watts. Hum and Noise: Tuner, -90 db; Mag Phono, -60 db. Inputs: Tape Head (NAB); Mag Phono (RIAA); Ceramic Phono; Aux; Tuner. Separation: Exceeds 40 db on all inputs.

All-Transistor Hi-Fi Components by Knight-Kit



New! knight-kit KG-70 all-transistor

Only

§**99**95

Less Case

- 15 Transistors and 14 Diodes for Unexcelled Performance
- IF Strip and FM Front-End Assembled and Aligned
- Automatic Stereo Multiplex Indicator Light
- Micro-Accurate FM-AM Signal-Strength-Type Tuning Meter for Peak Performance
- 2μν FM Sensitivity—Edge-Illuminated Dial

Another exciting "first" from the world's most experienced manufacturer of solid-state hi-fi components in kit form . . . an all-new *transistor* tuner kit that gives you breath-taking stereo multiplex FM, plus wideband FM and sensitive AM. Since no tubes are used, you enjoy virtual elimination of hum and heat, freedom from microphonics, and fantastic durability. In addition, the KG-70's FM front-end and IF circuits are *pre-wired* and *pre-aligned*. This feature, plus advanced all-transistor design, gives you the highest level of performance attainable in a tuner kit—and enormously simplified assembly.

Deluxe features include low-impedance outputs that allow long cable runs; effortless flywheel tuning; signal-strength type tuning meter; and tuned RF stages on both FM and AM. FM circuit also has 2 wideband IFs, an interference-blocking limiter, a wideband ratio detector, AFC to lock-in stations without a trace of drift, and an automatic gain control circuit for stable fringe-area reception. On AM, a 10-kc IF bandwidth offers top fidelity. Supplied complete with 2 audio cables, wire, solder, easy-to-follow, step-by-step instructions. Dimensions and styling exactly match those of the KG-60 amplifier on the facing page—a perfect "stereo pair." Less case, below. For operation from 110-125 v., 60 cycle AC. Shpg. wt., 5½ lbs.

83 YU 704-J. \$5 Monthly	ONLY 99.9!
83 YX 033-J. Metal Case for KG-70. Shpg. wt., 5 lbs	
83 YX 032-J. Oiled Walnut Case for KG-70. 5 lbs	ONLY 9.9

FM SPECIFICATIONS. Usable IHFM Sensitivity: 2 µv for 30 db of quieting. Response: ±1 db, 20-20,000 cps. IF and Detector Bandwidth: 200 kc. Hum and Noise: 60 db below 1 v. Channel Separation: 30 db. Antenna: External 300-ohm twin-line folded dipole. AM SPECIFICATIONS. Sensitivity: 3 µv for 10 db signal/noise ratio. IF Bandwidth: 10 kc. Hum and Noise: 60 db below 1 v. Antenna: Built-in ferrite loopstick.

Enjoy More of the Good Things—Use Your Allied Credit Fund



IF Strip is Factory Wired and Aligned ...the Most Critical Wiring is Already Done for You!



FM Front-End Also Is Pre-Wired and Perfectly Aligned for Superb 2-Microvolt Sensitivity.



Automatic Indicator Light Flashes On Whenever You Are Tuned to a Stereo Broadcast.



Tuning Meter Assures Peak Reception on Both FM and AM Broadcasts.



New KG-250 20-Watt Stereo Amplifier Kit with Every Feature for True Hi-Fi Response

- Deluxe Styling and Features at Amazingly Low Cost
- New Output Transformers For Cleaner Sound
- DC on Preamp Tube Filaments for Lowest Hum and Noise
- Simplified, Exceptionally Easy-to-Operate Controls
- Magnetic Phono Inputs-Push-Pull Outputs-Pilot Light

\$39⁹⁵

Less Case

The finest 20-watt stereo amplifier kit you can buy! You get sophisticated styling, top dollar-value, 10 clean watts of continuous sine wave power on each channel, and uncluttered point-to-point wiring for the easiest assembly imaginable. Built-in preamps, with DC-operated tube filaments, and twin push-pull output circuits with new, improved transformers deliver pure, vibrant sound over the audio spectrum. Other highlights: RIAA-equalized Magnetic Phono inputs; clutch-type volume controls; separate boost-and-cut bass and treble controls; and an AC accessory outlet. Special two-piece chassis design also aids assembly—the KG-250 is a real delight to build. With precut wire, solder, step-by-step instructions. Less case, below. 41/8 (plus 5/8" legs)x131/4x81/2". For 110-125 v., 60 cycle AC. Shpg. wt., 16 lbs.

83	YX 317-J. \$5 M	onthly		· · · · · · · · · · · · · · · · · · ·	ONLY 39.95
83	VX 031-J. Metal	Case for KG-25	0. 5 lbs	a sala an water out	ONLY 3.95
83	YX 030-J. Oiled	Walnut Case for	or KG-250. 5	ibs	ONLY 9.95

SPECIFICATIONS. Power Output: 20 watts continuous sine wave power. Response: ±1 db, 30-15,000 cps at 20 watts. Harmonic Distortion: Below 1.5% at 20 watts. Hum and Noise: Tuner, -65 db at 20 watts; Mag Phono, -50 db at 20 watts. Inputs: Magnetic Phono; Ceramic (or Crystal) Phono; Tuner; Auxiliary. Output Impedances: 4, 8, 16 ohms. Output Tubes: Four ECL82s.

NO MONEY DOWN

Buys Any Kit of Your Choice

knight-kit



Deluxe Styling Includes Front Panel of Solid, Extruded Aluminum for a "Professional Look".



Dual-Concentric Clutch-Type Control Varies Channel Volume Separately or Simultaneously.



A Single Switch Selects Inputs as well as Stereo, Stereo Reverse, or Monophonic Operation.

New KG-50 Stereo Multiplex FM-AM Tuner Kit Featuring the Latest in Circuit Design

- Enjoy Flawless Reception of Every Type of Broadcast— Exciting Stereo FM, Wideband Conventional FM and AM
- Pre-Assembled and Pre-Aligned FM Front End
- Tuning Eye and AFC Assure Peak Reception at All Times
- Automatic Stereo Indicator Light on Front Panel

\$69⁹⁵

Less Case

The high-styled KG-50 packs a wealth of deluxe features to introduce a new level of performance to popular-price tuners. Its ultra-modern circuit brings you panoramic stereo FM that literally surrounds you with sound, conventional FM, and the news, sports and weather offered on AM. Wonderfully easy assembly and performance equaling that of expensive factory wired units is assured by a pre-wired FM front end, pre-tuned IF coils, and neat point-to-point wiring. Also: low-impedance cathode-follower outputs; special recording outputs with built-in 38-kc filters for flawless stereo taping; FM-AM tuning eye; edge-lit dial; and rearpanel channel separation control. FM circuit includes RF stage, 2 IFs, wideband ratio detector and AFC for stable, static-free hi-fi performance. AM circuit has a 10-kc. IF bandwidth for maximum fidelity. 8 tubes, including compactron and rectifier. With wire, solder, easy instructions. 41/8 (plus 5/8" legs)x13 1/8 x7 3/4". Less case For 110-125 v., 60 cycle AC. Shpq, wt., 91/8 lbs.

case. For 110-125 v., 60 cycle AC. Shpg. wt., 9½ lbs.

83 YU 720-J. \$5 Monthly.

ONLY 69.95

83 YX 019-J. Metal Case for KG-50. 5 lbs.

ONLY 3.95

83 YX 018-J. Oiled Walnut Case for KG-50. 5 lbs.

ONLY 9.95

FM SPECIFICATIONS. IHFM Sensitivity: 3 µv for 30 db of quieting. Response: ±1 db, 50-15,000 cps. IF and Detector Bandwidth: 200 kc. Hum and Noise: 40 db below 1 v. Channel Separation: 30 db. Antenas: Built-in, plus 300-ohm twin-line unit. AM SPECIFICATIONS. Sensitivity: 3 µv for 10 db s/n ratio. IF Bandwidth: 10 kc. Hum and Noise: 40 db below 1 v. Antenna: Ferrite loopstick.

MONEY-BACK GUARANTEE

You Must Be
Satisfied

knight-kit



Panel Light Flashes On Whenever Stereo Is Being Received

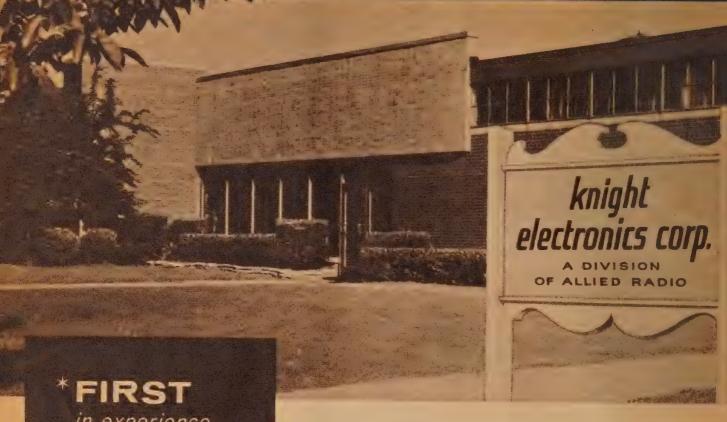


FM Front End Is Both Pre-Wired and Aligned for Perfect Operation.



Advanced Circuitry Includes G.E. Compactron
—Does the Work of
FOUR Tubes!

knight-kits"...unmatched for



in experience

- * FIRST
 in newest design
- * FIRST
- *FIRST
 in dependability

In this spacious, ultra-modern plant in Maywood, Illinois, staffs of designers, engineers, technical writers, draftsmen, illustrators, purchasing specialists, production, and quality control experts conceive, design, produce and market Knight-Kits. Continually, new ideas, modern engineering techniques and the finest quality materials flow into this plant. Our goals: To bring you the highest quality electronic equipment . . . To assure you of the easiest assembly . . . To provide you with substantial savings.







From drawing board to finished product, each Knight-Kit is the product of an experienced organization, devoted exclusively to providing you with the finest electronic equipment in easy-to-build kit form. Every Knight-Kit

faces rigid inspection and unyielding standards of quality control. Each new kit is thoroughly field tested. This careful attention to detail is the reason for Knight-Kit's reputation for finest quality and dependability.

performance and value...anyone can build them!

ONLY KNIGHT-KIT GIVES YOU ALL OF THESE IMPORTANT EXTRAS
THAT MAKE YOU A KIT-BUILDING EXPERT THE VERY FIRST TIME



"CAN'T MISS" INSTRUCTIONS. You always know where you are with these expertly written step-by-step instructions. In addition, there are large diagrams and pictures. There's no guesswork!



CARDED RESISTORS. No technical knowledge required. All resistors are mounted on cards—each with an identifying number. You just remove the resistor specified in the manual. Easiest way ever!

Identified Parts

Values are clearly marked on all capacitors and other components for instant identification. No previous kit-building experience or knowledge of electronics is required with Knight-Kits.

Quick-Set Solder

With your Knight-Kit, you receive Eutectic solder. Ideal for kit-building, it passes directly from molten to solid state—helps prevent "cold" solder joints.



ALL WIRE PRE-CUT AND COLOR-CODED. No measuring and no untangling. All wire has been cut to the length required, stripped, tinned and color-coded. It's the height of do-it-yourself convenience!



ONE-YEAR WARRANTY ON ALL PARTS. All parts supplied with your Knight-Kit are of the finest quality. In addition, you're protected by our one-year warranty against defects in materials.

Pre-Punched Chassis

Heavily cadmium-plated chassis have all holes prepunched. Sockets, controls, and other parts fit perfectly in place. There's never any metal working or drilling necessary when you build a Knight-Kit.

Consulting Service

We'll be happy to answer your questions—either before selection or after your kit is completed—there's no charge for this service. You can also have your Knight-Kit checked at a nominal charge.

ALLIED fully protects your Knight-Kit purchase with this Your Knight-Kit must meet with your satisfaction or your purchase price is refunded

BUILD IT! USE IT!

YOU MUST BE SATISFIED...

OR YOUR MONEY IS REFUNDED!"



KU-45 Stereo Multiplex FM-AM Receiver Kit

139⁹⁵

less case

- Excellent Sensitivity-21/2 Microvolts Usable IHFM for 30 db Quieting
- Pre-Assembled and Pre-Wired Front End-Needs No Further Adjustments
- AFC and DSR Assure Drift-Free, Distortionless Stereo and Monophonic FM
- "Tuning Eye" Indicator Provides Easy Tuning on Both AM and FM Signals

INCLUDES THESE FINE CUSTOM FEATURES



Latest Style Pushbutton Off-On Switch

Eliminates resetting volume when unit is turned "On".



Bar Type Tuning "Eve"

For pinpoint tuning accuracy on both AM and FM signals.



8-Position Selector Control

Fingertip command of all modes and signal sources.

Here's everything you need in an exclusive "Audio Center" kit—priced right and with features never offered before in a unit of this type! On a single chassis you get: a 32-watt stereo amplifier; dual preamps for records and tapes with a full set of controls; FM-AM tuner; plus the very latest built-in stereo multiplex FM circuit! Add only speakers and stereo record changer or tape transport to have a complete stereo system of unexcelled quality. You'll get marvelous sound and the finest performance from this blue-ribbon winner each and every time you use it!

FM section highlights include: Automatic Frequency Control for "lock-in" tuning of stations; Dynamic Sideband Regulation to compensate for distorted or overmodulated FM station transmissions; pre-assembled, pre-aligned FM "front end" for quick, easy assembly with no critical adjustments, and rock-like stability, and precision multiplex circuitry for all the beauty and realism of FM stereo reception.

Amplifier section features: tapped-screen linear output for clean reproduction of sound across the entire audio range; full set of controls including tape recorder inputs and outputs; center channel output for a third stereo speaker or extension speaker; and 32 watts of continuous sine wave power output. Includes AM loopstick and FM folded-dipoe antennas, all parts, tubes, wire, solder, instructions. Panel in satin gold and mocha brown. Less case, below. Size, 43/4x161/2x13". For 110-125 v., 60 cycle AC. Wt., 39 lbs.

83 YU 993-J. \$7 Monthly. ONLY 139.95
83 YX 646-J. Metal Case. In Cordovan Gray. Wt., 5 lbs. ONLY 7.95
83 YX 021-J. Wood Case. In attractive walnut. Wt., 9 lbs. ONLY 14.95

SPECIFICATIONS

Amplifier Section—Power Output: 32 watts continuous sine wave. Frequency Response: ±1 db, 30 to 16,000 cps at full rated power. Harmonic Distortion: 1.0% at full rated power. Hum and Noise: —75 db or better in Tuner position. Output Impedances: 4, 8, 16 ohms each channel; 8 and 16 ohms center channel. Tuner Section—FM Sensitivity: 2½ microvolts usable IHFM for 30 db quieting. IF Bandwidth: 200 kc at 3 db down. AM Sensitivity: 3 microvolts for 10 db S/N ratio. Tube complement: 18 tubes, plus rectifier.



less case

No Warm-Up Required—Plays Instantly

14 Transistors and 4 Diodes Employed

- Better Than 35 db of Channel Separation
- Direct-Coupled Output—Uses No Output Transformers or Blocking Capacitors

This brand new fully transistorized 16-watt per-channel stereo amplifier with advanced circuitry, gives you truly mangificent performance—will provide years and years of listening pleasure. Low in cost and extremely compact, the KG-320 amplifier offers a host of fine features: instant and cool operation, freedom from microphonics, functionally grouped controls, modern decorator styling, plus balance control for individual adjustment of the speakers and master volume control for overall level.

Uses genuine direct coupling between output stage and your speakers. No output transformers of DC blocking capacitors to mar faithful stereo reproduction. Features the Knight-Kit pioneered "Thermal Feedback" circuit that protects output transistors from overload, acts as a fuse device for your speakers, and helps maintain circuit stability at all times.

Has 5 pairs of inputs including tape head; separate ganged bass and treble controls; rugged printed circuit construction; tape recorder outputs; 2 switched AC outlets; and stereo-mono switch. Extruded aluminum panel is beautifully styled in Sierra Gold and black. With all parts, wire, solder, and detailed, step-by-step instructions. Size, 23/4x10x81/2". Less case, below. For 110-125 v., 60 cycle AC. Shpg. wt., 7 lbs.

83 YX 601-J. \$5 Monthly.....ONLY 59.95

83 YX 016-J. Wood Case. Attractive walnut. 5 lbs...ONLY 9.95 83 YX 017-J. Metal Case. Cordovan Gray. 5 lbs.....ONLY 4.95

SPECIFICATIONS

Output Impedance: Matches 8 or 16-ohm load. IHFM Music Power Output: 32 watts. Frequency Response: 25 to 18,000 cps (±1 db) at full rated power. Harmonic Distortion: 1% at full rated power. Hum and Noise: -77 db. Channel Separation: 35 db or better. Treble Boost and Cut: 10 db at 10,000 cps. Bass Boost or Cut: 10 db at 100 cps. Power Consumption: 10 watts with no EASY-TO-BUILD Knight-Kits are a world of fun to put together. Careful packaging and attention to detail, plus clearly identified parts make them a snap to assemble—even if you've had no previous electronic experience. You get the world's easiestto-follow instructions, carefully written and clearly illustrated. Anyone can build a perfect Knight-Kit!





Finest Pertormance, Up-to-Date Styling . . . A Superior Value



KA-55 Deluxe 40-Watt Stereo Hi-Fi Amplifier Kit

\$79⁹⁵

\$5 monthly

- Custom Features Usually Found in Costlier Components
- * Giant Array of Front-Panel Controls Puts You in Full Command
- Specially-Designed Full-Range Center Channel Speaker Output Permits Adding "Center-Channel" or Extension Speakers
- Modern Printed Circuit Construction For Assembly Ease

AMAZING VERSATILITY. Five pairs of stereo inputs including "Tape Head"—plus stereo recorder output—give complete flexibility.







PRINTED CIRCUIT SWITCHES AND "PACS." "PAC" resistorand capacitor units and convenient Knight-Kit printed-circuit switches insure fast, remarkably easy assembly.

For outstanding performance, years-ahead features, for styling of lasting beauty, the KA-55 represents an incomparable value. Easy to assemble, it delivers a full stereophonic output of 20 watts per channel, continuous sine wave power. Its fully integrated stereo preamplifier section accommodates every stereo or monophonic sound source. Amplifier section incorporates a specially-designed center-channel output—feed the full audio range to a center speaker and /or hook it up to extension speakers in other rooms.

Dual-concentric, clutch-type controls regulate bass and treble on either channel separately or on both simultaneously. Five pairs of stereo input jacks, including Magnetic Phono, Ceramic Phono, Tuner, Auxiliary and tape head. Has stereo balance control, mode switch that selects regular or reversed stereo, left or right channel alone or through both speakers.

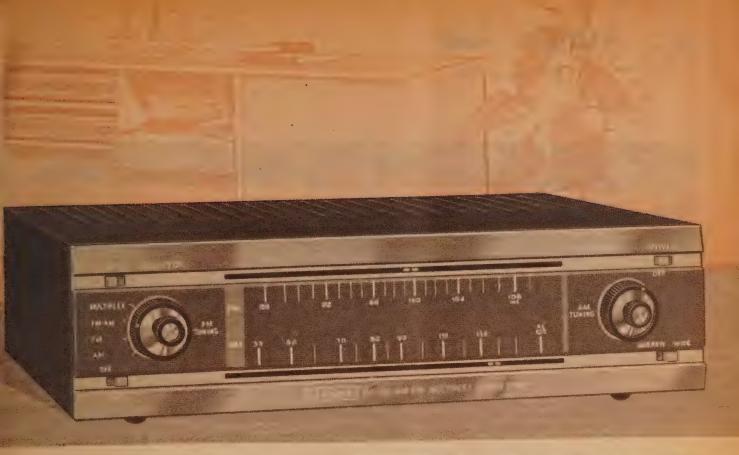
Has tape recorder output jacks, rumble and scratch filters, loudness-volume control. You get step-by-step instructions and giant picture diagrams—fun to build even if you have had no electronic experience. Cordovan Gray metal cabinet, Desert Beige and Sand Gold front panel. With cabinet, all parts, wire and solder, instructions. 4½ (plus ½" legs)x15½x11½". Knobs extend 1½". For 110-125 v., 60 cycle AC. Wt., 26 lbs.

33 YU 774-J. \$5 Monthly.

ONLY 79.95

- SPECIFICATIONS -

Power Output: 40-watts continuous sine wave. Response: ±1 db, 25-28,000 cps at full rated output. Distortion: Harmonic, less than 0.75% at full rated output; IM, less than 1.0%. Hum and Noise: Tuner input, -77 db; Magnetic Phono Input, -55 db. Inputs (5 pairs): Tape Head (NAB), Magnetic Phono, Ceramic Phono, Tuner and Aux. Sensitivity: Tape Head (NAB) and Magnetic Phono (RIAA), 2.2 mv; Ceramic Phono, 300 mv; Tuner, 300 mv; Aux., 700 mv. Feedback: 38 db negative each channel. Impedances: 4, 8, and 16 ohms each channel; 8 and 16 ohms center channel. Tubes: 2—6EU7; 2—12AX7; 2—6CM8; 4—6973; GZ34 rectifier.



KF-90 Wideband Stereo Multiplex FM-AM Tuner Kit

\$9995

\$5 monthly

- Fully Equipped Multiplex Circuit—Nothing Else for You to Buy
- 1½ Microvolt Usable IHFM Sensitivity
- Variable AFC Provides Drift-Free "Lock-In" Tuning
- RF Coils and IF Transformers are Factory Pre-Aligned
- "Stereofinder" Dimension Control Locates Stereo Broadcasts

Deluxe built-in multiplex circuit, improved wideband FM circuit, variable AFC, superb DSR circuit, precise "magic eye" tuning indicators—all this in an FM-AM tuner that you can easily build—and at a price so low that it's hard to believe. You'll love the dazzling brilliance of stereo multiplex FM, as well as the sparkling high fidelity of conventional FM broadcasts, and the sensitive reception of your favorite AM programs.

And, thanks to the KF-90's "stereofinder," you never have to guess when a station is transmitting FM stereo. Handy, front-panel Dimension control is turned counter-clockwise for "stereofinder" function—and only picks up stereo broadcasts in this position. Once you're tuned to stereo, just turn the control clockwise, and you're all set for breathtaking stereo FM.

With Allied-pioneered Dynamic Sideband Regulation, the KF-90's FM section sets new standards in distortion-free reception. A form of inverse feedback, DSR reduces to insignificance distortion caused by overmodulation at the

station. Wideband circuit is dual limiter-discriminator type—provides extremely high sensitivity. AFC assures drift-free listening—adjusts for tuning weak signals adjacent to strong ones. Customized AM section offers high sensitivity, plus choice of narrow and wide IF bandwidth for sharp or broad tuning. Also has 10-kc whistle filter and built-in loopstick antenna. All circuitry on the KF-90 is on printed circuit boards for fastest, easiest assembly. RF and IF transformers are carefully sweep-aligned at the factory.

Cathode-follower-type outputs have individual level controls. Moving bar-type "magic-eye" tuning indicators and weighted flywheel make "dialing" the KF-90 a pleasure. Styling matches Knight-Kit KA-95 and KA-55 Stereo Amplifiers, KP-50 Stereo Preamp and KP-70 Tape Preamp. Cordovan Gray steel case—extruded aluminum panel in Desert Beige and Sand Gold. With wire, solder, step-by-step instructions. 4 ½ (plus ½" legs)x15 ½x16 ½". Knobs extend 1 ½". For 110-125 v., 60 cycle AC. 29 lbs.

83 YU 914-J. \$5 Monthly.....ONLY 99.95

KS-11 MULTIPLEX ADD-IN ADAPTER KIT

Builds into Knight-Kit Deluxe Hi-Fi Tuners (83 YU 731/83 YU 732) for conversion to FM stereo. Printed circuit board construction. Takes power from your tuner. 3 tubes, all parts, instructions. 3 lbs.

83 YX 907-J.....ONLY 17.95

-SPECIFICATIONS -

FM Sensitivity: 1½ microvolt usable IHFM sensitivity for 30 db quieting. IF Bandwidth: 200 kc at 50% down on curve. Hum and IF Noise: 60 db below 1 volt. AFC Pull-In: ±150 kc, variable. Image Rejection: 60 db. Frequency Response without Deemphasis: Essentially flat from 20-20,000 cps. Multiplex Channel Separation: 30 db; Storecast Signal Suppression: 60 db or better. AM Sensitivity: 3 microvolts for 10 db S/N ratio. 10-Kc Whistle Filter: 40 db rejection. Hum Level: 60 db below 1 volt. Frequency Response: Narrow—20 to 7,000 cps, 6 db down at 3.5 kc. Wide—20 to 10,000 cps, 6 db down at 6.5 kc.





Model KA-95 70-Watt Stereo Hi-Fi Amplifier Kit

Only \$11995

\$6 monthly

CUSTOM FEATURES



Printed Circuit Switch. Just snap into PC board—solder and it's done.



Tape-Source Monitor. Selects playback from tape or from sound source—lets you hear your tape while you are recording!



Dual Concentric Bass and Treble Controls. Ganged clutch-type tone controls permit you to adjust each channel separately or both channels simultaneously. Let you correct for differences in speaker response, as well as room acoustics.

- Ideal As the "Heart" of a Super-Power Home Music System
- Six Pairs of Stereo Input Accommodate Every Music Source
- Clutch-Type Dual Concentric Bass and Treble Tone Controls
- DC on All Preamplifier Tube Filaments For Minimum Hum
- Independent Tape Inputs and Outputs on Each Channel

A masterpiece of brilliant engineering, the mighty KA-95 includes every feature necessary for maximum flexibility and finest stereo reproduction. Another truly outstanding value—in easy-to-assemble, money-saving Knight-Kit form. Its flexible preamplifier section has stereo "Blend" control that lets you electronically "move" your speakers together or apart for optimum stereo. Has special "center-channel" speaker output—also permits hookup of remote speakers. Two switches let you phase all channels to one another.

Six pairs of stereo inputs accommodate every music source. Clutch-type concentric bass and treble controls let you individually or simultaneously adjust channels for the tone you desire. Has single-knob "Balance" control, stereo tape inputs and outputs. "Source-Tape" monitor switch permits comparison of recording with input signal.

Also: Tape Head equalization; input paralleling switch for playing mono records; RC rumble and scratch filters; ganged master volume control switches to loudness control; tuner level set controls; low noise resistors in critical circuits; high sensitivity at Phono and Tape Head inputs; DC on all preamp filaments. Panel markings permit simple operation. Handsome steel case in Cordovan Gray with heavy, extruded aluminum panel in Beige and Gold. With wire, solder, easy-to-follow instructions. 41/8" (plus 5%" legs)x171/2x131/2". Knobs extend 11/4". For 110-125 v., 60 cycle AC. 31 lbs.

83 YU 934-J. \$6 Monthly.

-SPECIFICATIONS-

Output: 70-watts sine wave. Response: +0.5 db, 20-30,000 cps @ 70 watts. Distortion: Harmonic, 0.5% @ 70 watts; IM, below 1.0% @ 70 watts. Hum & Noise: High Level inputs, 85 db below 70 watts; Mag. Phono Input, 55 db below 70 watts. Inputs: (6 pairs) Tape Head; Mag. Phono; Cer. Phono; Tuner; Aux.; Tape. Outputs: 4, 8, 16 ohms; 8, 16 ohms center. Tubes: 2 each—12AY7, 7025, EF86, ECC83, GZ34 rec.; 4—EL34.

enjoy the thrill of living STEREO FM ---with Knight-Kits.



Model KF-75 Stereo Multiplex FM Tuner Kit

Only \$5 monthly

OFFERS YEARS AHEAD **DELUXE FEATURES**



STEREOFINDER"

Finds stereo broadcasts for you. Turn Dimension control counterclockwise, tune—you only hear stereo signals-now turn control clockwise and adjust for most pleasing sound.



"Magic-Eye" Tuning. For pin-point accuracy. A moving bar of light glides across the dial-closes to a slit on perfectly tuned station.

- Offers 11/2 μν Sensitivity IHFM for Greater-Than-Ever "Pull-In" Power
- Built-In Multiplex Circuitry Provides Thrilling Stereo FM Reception
- Continuously Variable AFC Gives Absolutely Drift-Free Performance
- Exclusive Dynamic Sideband Regulation Effectively Reduces Distortion
- STEREOFINDER Dimension Control Helps You Find Stereo Broadcasts

A deluxe FM tuner, fully equipped for breath-taking stereo multiplex FM reception. Multiple circuitry provides sparkling high fidelity stereo with excellent channel separation; brilliant reception of monophonic FM broadcasts, too. 1 1/2 uv IHFM useable sensitivity gives you greater-than-ever "pull-in" power-terrific for fringe areas where signals are weak.

Unique STEREOFINDER helps you locate stations broadcasting stereo FM. Turn Dimension Control counter-clockwise for STEREOFINDER function tune across FM band for multiplex signal—its the only one you'll hear—then turn control clockwise and you're set for superb stereo reception. Dimension Control adjusts channel separation for optimum stereo effect. Other features: Dynamic Sideband Regulation for distortion-free reception; AFC for drift-free listening. All circuitry is on printed circuit boards for fast, easy assembly. RF and IF transformers are factory pre-aligned. Cathode-follower outputs have individual level set controls. All this in one self-contained, beautifully-styled

SPECIFICATIONS: Sensitivity: 1 1/2 μν IHFM for 30 db quieting. Response: 50-15,000 cps. Separation: 30 db. Bandwidth: 200 kc. Hum & Noise: 60 db below 1 v. With same handsome case and extruded aluminum panel as Model KA-95 Stereo Amplifier Kit on opposite page. 41/8 (plus 5/8" legs)x151/2x15". Knobs extend 11/4". For 110-125 v., 60 cycle AC. 26 lbs. 83 YU 918-J. \$5 Monthly.

KS-11 Add-In Multiplex Adapter Kit for 83 YU 731 and 83 YU 732 Tuners

Only

Calling all owners of Knight-Kit Deluxe FM and FM-AM Tunersl Here's easy "inboard" conversion to stereo Multiplex FM-and at a cost so low it's hard to believe. This complete adapter uses a single, printed-circuit board chassis-builds right into your monophonic tuner quickly and easily. Takes power from tuner. 3 lbs. 83 YX 907-J. ONLY 17.95







KG-400 32-Watt Stereo Amplifier Kit

\$5995 less case

YOU GET THESE SUPERIOR FEATURES AT NO EXTRA COST



Tape Head Inputs provide proper NAB equalization when playing tape deck through amplifier.



Extruded Aluminum Panel harmonizes with any decor. For cabinet or recessed mounting.



4-Position Selector Knob provides quick selection of desired stereo input.

- Independent Tape Inputs and Outputs on Each Channel
- DC on All Preamp Tube Filaments for Negligible Hum
- Ganged Bass and Treble Controls for Easy Adjustment
- Center Channel Output for Extension Speaker

Presenting an updated version of a hi-fi masterpiece—sure to be enthusiastically received by budget conscious do-it-yourself'ers. Capable of strikingly pure reproduction, the KG-400 delivers 16 watts of continuous sine wave power per channel for a total of 32 watts of stereo power output. Two fully integrated preamps provide precise RIAA equalization for all magnetic cartridges. Also incorporates stereo inputs for ceramic cartridge, tuner, tape head, plus auxiliary source. Versatile controls give you full command of stereo and monophonic reproduction with unexcelled ease and precision.

A center channel output permits adding additional speakers for sound throughout the home, or for reinforcing stereo effect with center speaker when using widely spaced stereo speakers. Additional features: Ganged bass and treble controls that boost or attenuate both channels simultaneously for simple adjustment of tonal quality to precisely suit your taste; single-knob control for optimum channel balance; slide switch for paralleling channels when playing monophonic discs; DC preamp filaments for minimum hum and noise; and noise; and tape recorder outputs unaffected by volume and tone controls.

Has two accessory AC outlets, one switched on and off with amplifier. Comes with lustrous platinum/yellow gold panel—harmonizes beautifully with any decor. Less cabinet, below. 41/4x143/6x113/4". Includes all parts, wire, solder, and instructions. For 110-125 v., 60 cycle AC. Wt., 24 lbs.

83 YU 413-J. \$5 Monthly.

ONLY 59.95
83 YX 023-J. Wood Case. Attractive walnut. 5 lbs.

ONLY 9.95
83 YX 024-J. Metal Case. Cordovan gray finish. 5 lbs.

ONLY 3.95

- SPECIFICATIONS -

Power Output: 32 watts continuous sine wave. Frequency Response: ±1 db from 30 to 16,000 cps each channel at full rated power. Harmonic Distortion: less than 1% at full rated power. Hum and Noise: better than 75 db per channel below full output at high level inputs; 52 db per channel below full output at magnetic phono input with 10 mv input reference signal; better than 45 db per channel below full output at tape head input with 10 mv signal.



Model KG-65 Economy Hi-Fi FM-AM Tuner Kit

Only \$49⁹⁵

less case

- No-Drift AFC Circuit Securely "Locks-In" FM Stations
- Pre-Aligned RF and IF Coils—No Further Adjustments
- Multiplex Output Jack for Easy Addition of Stereo FM Adapter
- Compact Size—Beautifully Styled Panel—Easy to Build

Get genuine hi-fi performance at far less cost than comparable factory-wired tuners! The KG-65 offers amazingly sensitive FM and AM reception on a single, compact chassis. It's easily the finest tuner in its class! Among the many stand-out features are: AFC circuit that "locks in" FM stations to prevent annoying drifting—plus AFC Defeat that allows you to tune weak stations adjacent to strong ones; cathode-follower output that lets you run a long lead to your amplifier without high-frequency loss; plus heavy flywheel tuning for gliding effortlessly from station to station. Multiplex output jack equips set to receive FM stereo whenever you add an adapter (see Knight-Kit KG-12 in this section). Easy-to-build, printed circuit construction. Has beautiful platinum /yellow gold panel. 4 1/4 x13 1/4 x8". With all parts, instructions. Less case, below. For 110-125 v., 60 cycle AC. Wt., 13 lbs.

83 YX 315-J. \$5 Monthly.

83 YX 018-J. Wood Case. Attractive walnut. 5 lbs.

ONLY 9.95

83 YX 019-J. Metal Case. Cordovan gray finish. 5 lbs.

ONLY 3.95

- SPECIFICATIONS -

IHFM FM Sensitivity: 4 μν for 30 db quieting. Hum and IF Noise: 60 db below 1 volt. IF Bandwidth: 200 kc at 50% down on curve. Image Rejection: 60 db.

Frequency Response: 20-20,000 cps without de-emphasis.

AM Sensitivity: 3 microvolts for 10 db S/N ratio. IF Bandwidth: 8 kc at 50% down on curve. Hum Level: -60 db. Image Rejection: 20 db. Response: 20 to 8000 cps.

New! KG-35 Hi-Fi FM Tuner Kit

For high-fidelity FM at a price anyone can afford—for outstanding performance and top-quality components—the number one choice is the KG-35 tuner kit. Designed for assembly ease, this tuner uses a 7 tube circuit for extraclean, first-rate FM reception. Features: modern printed circuit construction; automatic frequency control (AFC) for "lock-in", drift-free tuning; pre-aligned RF and IF transformers; effortless flywheel tuning; cathode-follower main output; multiplex adapter output for FM stereocasts (see Knight-Kit KG-12 in this section). Decorative platinum/gold panel. Less case, uses same as KG-65 above. For 110-125 v., 60 cycle AC. 13 lbs.

83 YX 408-J. \$5 Monthly ONLY 35.95

\$35⁹⁵ less case



- SPECIFICATIONS -

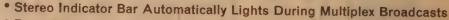
IHFM Sensitivity: 4 μv for 30 db quieting. IF Bandwidth: 200 kc at 50% on curve. Image Rejection: 40 db with 10 microvolt signal. Hum Level: -45 db below 1 volt. Frequency Response: 20-20,000 cps, $\pm \frac{1}{2}$ db. Output Impedance: 3000 ohms (cathode-follower). Distortion: 0.6%.



Model KG-12 Deluxe Stereo Multiplex Adapter Kit

Only 52995

\$5 monthly



- Front Panel Separation Control for Adjusting for Optimum Stereo Effect
- Compatible With Most Wideband Tuners; Completely Self-Powered
- Incorporates Noise Filters and Tape Recording Filters



Thrill to the exciting depth and full richness of stereophonic FM broadcasts by using this deluxe multiplex adapter kit with your present wideband FM or FM/AM tuner. It's simple to build, and really easy to connect—detailed instructions show you the way. Then sit back and relax, you'll love the life-like realism of FM stereo sound. Positive identification of stations broadcasting multiplex is achieved by a front panel indicator which lights up and reads "STEREO" when stations are transmitting stereo FM. A front panel function switch allows you to completely bypass the adapter during conventional FM broadcasts. The KG-12 is self-powered and does not require any power from your tuner. Has built-in noise and tape-filters for best performance. 30 db separation; adjustable by panel control. Response, ± 1 db, 50-15,000 cps. 4 tubes, pilot light. Decorator-styled platinum/gold panel. With cables, wire, solder, instructions. Cordovan Gray case. 4¾x6x7½". For 110-125 v., 60 cycle AC. 6 lbs.

Model KS-10A Low-Cost Stereo Multiplex Adapter Kit



Only **95**

- Use With Any Wideband FM Tuner
- Self-Powered—Has Handy On-Off Switch
- Adjustable Stereo Separation Control
- Noise Filter for Fringe Area Reception

ALLIED



Model KM-20 Popular 18-Watt Hi-Fi Amplifier Kit

- Has 8 Inputs to Accommodate Virtually Every Sound Source Required
- Uses RCA 6973 High-Fidelity Audio Output Tubes for Top Performance
- Wide, Smooth, True Hi-Fi Frequency Response from 30-16,000 cps at 18 Watts
- Exclusive Printed Circuit Switch and Boards for Easy, Simplified Assembly

Get more for your hi-fi dollar in features, performance and styling with this blue-ribbon winner! The KM-20 amplifier is a perfect choice as the heart of any monophonic system-or as a splendid "add-on" unit for stereo. Delivers 18 watts of continuous power at an imperceptible 0.5% distortion; uses RCA 6973 high-fidelity audio output tubes for the best possible performance. Highlights include: separate recorder output for taping a program source independently of amplifier controls; equalized input for tape head; 4 high-gain inputs; 4 lowgain inputs; AC convenience outlet; 7 record equalization settings; and easyto-use, simplified controls. Utilizes the famous Knight-Kit printed circuit selector switch and circuit boards for easy, pleasurable assembly. With attractive Cordovan Gray case and Desert Beige/Sand Gold panel. Size, 41/4 (plus 5/8" legs)x131/4x8". With all parts, tubes, wire, solder and complete assembly instructions. For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs. 83 YX 930-J. \$5 Monthly......ONLY 39.95

SPECIFICATIONS

Rated Power Output: 18 watts continuous sine wave. Frequency Response: ±1 db, 30 to 16,000 cps at 18 watts. Harmonic Distortion: 0.5% at full rated power output. Hum and Noise: (Tuner) Better than 70 db below 18 watts. (Magnetic Phono) 52 db below 18 watts. Sensitivity: (Full output) Tape Head and Mag. Phono, 5 mv; Mic., 35 mv; Aux. and Tuner, 1.8 volts; Ceramic Phono, 0.5 volts; Tape, 0.4 volts. Impedance: 4, 8, 16 ohms

Model KM-15 Economy 12-Watt Hi-Fi Amplifier Kit

- Push-Pull EL84 Output for Clean Sound
- Equalized Magnetic Input Plus Tuner
 Separate Bass and Treble Controls
- Exceptionally Low Distortion

Anyone can build it—everyone can afford it! Exceptionally compact yet custom-engineered for quality, the KM-15 represents a great hi-fi value. Features push-pull output; 15 db of inverse feedback for clean, true sound; inputs for magnetic phono and tuner; separate bass and treble for complete control of tonal color; minimum hum and noise (-65 db in Tuner position); and output for 4, 8, and 16 ohm speakers. An ideal choice for conversion to stereo, with another monophonic amplifier. With parts, wire, solder, instructions. Black finish. Less cover, below. 5x91/2x6". For 110-125 v., 60 cycle AC. 8 lbs.

ONLY 19.95 83 Y 784-J. \$5 Monthly.... 83 Y 783-J. Top Cover. Gray/Chrome. 2 lbs....ONLY 3.95





New Model KG-240 20-Watt Stereo Amplifier Kit

Only

• Delivers 10-Watts Per Channel IHFM Music Power Output

- Accommodates Both Tuner and Ceramic Phono Sources of Signal
- Includes Ganged Bass and Treble Controls for Tonal Adjustments
- Dual Concentric Volume Control for Independent Channel Balancing

A solid value at an unusually low price, the new Knight-Kit KG-240 Amplifier Kit is heartily recommended for economy stereo home music systems. Two pairs of inputs are provided to accommodate ordinary sources of stereo sound-tuner and ceramic phono-which are easily selected by a front panel slide switch. Ganged bass and treble controls for both channels let you make tonal adjustments to suit your listening pleasure with ease and accuracy. A dual concentric volume control allows fast and simple channel balancing, and will compensate for the positioning of your speakers and room acoustics-provides the best stereo effect. All controls are front-panel mounted for utmost convenience. This top value amplifier uses quality

ECL-86 tubes in push-pull circuitry for distortion-free Knight-Kit KG-240 Stereo Amplifier Kit with Optional Top Cover



audio reproduction. Styled in platinum bronze, accented by a white escutcheon with black knobs and chrome trim. Fused transformer-type power supply. Size, 5x10x7". With all parts, tubes, wire, solder, instructions. Less cover, below. For 110-125 v., 60 cycle AC. Wt., 8 lbs.

83 YX 602-J. \$5 Monthly.....ONLY 29.95 83 Y 020-J. Metal Cover for Above. 2 lbs.....ONLY 3.95

SPECIFICATIONS

Power Output: 10 watts per channel (IHFM). Frequency Response: ±1 1/2 db, 35 to 15,000 cps. Harmonic Distortion: 1.5% at 1 kc. Sensitivity: ½ volt. Hum and Noise: 60 db below rated output. Separation: -35 db or better. Treble and Bass: -10 db at 15 kc, +10 db at 100 cps.

Budget-Priced Stereo System

Complete System monthly

SAVE \$4.85 OFF COST OF INDIVIDUAL COM-PONENTS PURCHASED SEPARATELY! Carefully chosen by Allied's audio staff to provide good stereo reproduction at exceptionally low cost. System Includes: Knight-Kit KG-240 Stereo Amplifier Kit (less cover); Admiral Ensign Record Changer With Ceramic Stereo Cartridge (less base); Two Knight KN-809 Full-Range 8" Speakers. Also included are all necessary interconnecting cables. Changer plays 4 speeds, 16%, 33 %, 45 and 78 rpm. Intermixes 10" and 12" records. Speakers reproduce both highs and lows faithfully. Shpg. wt., 30 lbs 22 HF 034-J. \$5 Monthly.....ONLY 64.95

73 RX 062C-J. Wood Base for Changer. In mahogany, limed oak or walnut. Specify finish. Wt., 4 lbs. ONLY 4.49



Model KB-85 70-Watt Stereo Basic Amplifier Kit

\$69⁹⁵

new low price

- Extremely Wide Frequency Response Even At Full Rated Power Output
- Tremendous Reserve Power—Excellent for Use With Low-Efficiency Speakers
- Unexcelled Design; Premium-Quality Parts; Gleaming Chrome Chassis
- Highly Sensitive-0.54 Volts per Channel Produces Full 70 Watt Level

A superb stereo basic amplifier that meets the most critical professional requirements. Its powerful 70 watts continuous power output makes it ideal for use with high-compliance, low-efficiency speaker systems as well as all good-quality, high-efficiency speakers. Highlights include: low-noise resistors in all critical circuitry; 35 db of negative feedback per channel for flawless sound; superior quality high-fidelity output tubes; monophonic changeover switch. Uses 2 printed circuit boards for easy, accurate assembly. Chassis in chrome and black. With wire, solder, instructions. Less cover, below. 8 ½x14x9°. For 110-125 v., 60 cycle

AC. 39 lbs.

83 YU 618-J. \$5 Monthly......ONLY 69.95

83 YX 779-J. Metal Cover. Wt., 5 lbs.....ONLY 6.50

SPECIFICATIONS

Rated Power Output: 70 watts continuous sine wave. Frequency Response: ±0.5 db, 15 to 31,000 cps at full rated power. Distortion: Harmonic, 0.25%; Intermodulation, 0.15%; both at full rated power. Hum and Noise: 90 db below full rated output per channel. Input Sensitivity: 0.54 volts for full rated power. Output Impedances: 4, 8, 16, and 32 ohms, each channel. Damping Factor: 17.4 to 290, stereo connected. Controls: Level A; Level B; Stereo-Monophonic Switch; Monophonic Gain Balance Test Switch; Off-On; and Cathode Current Balance (2). Tubes: 2—EF86/Z729/6267; 2—ECC83/12AX7/7025; 4—EL37; 2—GZ34/5AR4 rectifiers. Power Consumption: 280 watts.

Model KP-50 Deluxe Stereo Preamplifier Kit



This deluxe, easy-to-build preamp kit offers every facility for the ultimate in stereo or monophonic sound. Has 5 pairs of inputs; dual-concentric controls for separate or simultaneous adjustment of bass, treble and level on both channels; DC filaments and shielded power supply; channel reverse; recorder outputs independent of volume and tone controls; LC-type scratch filters; rumble filters; and low-noise, premium-type tubes. Also cathode-follower outputs, and 2-AC convenience outlets. 41/4 (plus 5/8" legs)x131/4x71/2". Cordovan Gray case, Beige/Gold panel. For 110-125 v., 60 cycle AC. 14 lbs. 83 YX 768-J. \$5 Monthly.....59.95

SPECIFICATIONS

Frequency Response: ±½ db, 7 to 120,000 cps at tuner input; ±½ db, 10 to 80,000 cps at mike input. Harmonic Distortion: Less than .15%, 20-20,000 cps at 1 volt output. IM Distortion: Less than .7% at 1 volt output. Hum and Noise: Tuner, 80 db below 1 volt; Phono, 60 db below 1 volt. Bass and Treble Controls: Boost or attenuate 15 db at 20 cps and 20,000 cps respectively. Crosstalk Between Channels: —45 db or better. Sensitivity for 1 Volt Output Per Channel: Tape Head and Magnetic Phono, 2.5 millivolts; Ceramic Phono, 70 millivolts; Tuner, 150 millivolts; Auxiliary, 500 millivolts.



Model KP-70 Stereo Tape Record-Playback Preamp Kit

PACKED WITH FEATURES



"SOUND-ON-SOUND"

Accompany yourself in a duet. Special switching permits duplicating recordings from channel to channel—adding another "part" each time.



"ECHO-CHAMBER"

Professional-type echo chamber effect may be switched in at any time to enhance your recordings. No external cable patching is necessary.



CALIBRATED VU METERS

High-quality VU meters permit proper recording level adjustment. Provide accurate readings of both record and playback level at all times. 2-color scales are calibrated -20 to +3 db.

PROFESSIONAL QUALITY AT AMAZINGLY LOW COST

Only

Recording and Playback With Any Tape Transport

\$8995

Separate, Dual-Channel Record and Play Pre-amps

• "Sound-on-Sound" and "Echo Chamber" Effects

\$5 monthly

• Ultra-Flexible-Adjusts to Match Any Tape Head

Famous for its superb performance and sensational array of features, this ultra-flexible preamp provides high-fidelity playback and recording with any stereo tape transport. Its broad response covers the range from the lowest bass notes through the highest overtones of any musical instrument. Can be used for 2 or 3-head operation—with 3-head transports, such as the Knight KN-4000, you can create studio effects—"echo chamber," "sound-on-sound," etc.

The KP-70 has dual, concentric, clutch-type level controls for mike and auxiliary inputs, and for playback. Panel switch selects equalization for either $7\frac{1}{2}$ or $3\frac{3}{4}$ ips on both record and playback modes. Mike and aux inputs (tuner, etc.) can be mixed on each channel for truly professional recordings. A-B monitor switch permits comparison of tape and source.

Aluminum panel is styled in Desert Beige and Sand Gold. With instructions, all parts, wire and solder. Less case, below. Size: 41/8 (plus 5/6" legs)x151/2x91/2". For 110-125 v., 60 cycle AC. Supplied for 3-head operation—2-head operation requires switch listed below. Shpg. wt., 15 lbs.

83 YU 916-J		****	ONLY 89.95
83 YU 559-J. As al	bove, but factory wired.	For 2 and 3 heads	ONLY 139.95
83 YX 936-J. Cordo	ovan Gray Metal Case f	or KP-70, 5 lbs.	NET 4.95
95 DU 575-J. Porta	ble Carrying Case. For	Knight-Kit KP-70	and Knight KN-
4000 Tape Transpor	t. Cream and brown, 20	x16 1/x11 1/4", 15 lbs	NET 24 95
83 Y 940-J. 2-Head	Switch. 4 oz		NET 1.95

- SPECIFICATIONS -

Response (independent of transport): ±2 db, 18-22,000 cps. Harmonic Distortion: Recording sections, less than 0.3% at max. recording level; playback sections, less than 0.3% at 2v. output. Input Sensitivity (for max. record level): 0.5 mv at mike inputs; 80 mv at aux inputs. Equalization: NAB at 7½ ips (playback). Internal adjustment permits matching any recording head to produce NAB equalized tapes. Separate equalization for 3½-ips recordings. Bias Oscillator: 65 kc (voltage or current internally adjustable to match any head). Record Head Current: Adjustable to match any head.



Complete Professional Stereo Tape Recording Systems

OPTIONAL EXTRASListed in Systems at Right



Tape Splicing, Editing, Cleaning and Care Kit



Knight KN-4500 Dynamic Microphones



PORTABLE CARRYING CASE

Durable wood case for systems at right. Fabrikoid cream and brown finish. 20x16x11 1/2". Shpg. wt., 15 lbs.

95 DU 575-J. NET 24.95

SAVE ON THESE DELUXE COMBINATIONS

As Low As

• Full 4-Track Stereo and Monophonic Taping Facilities

\$21595

Transport has Three Heads, Three 4-Pole Motors

• Preamp has a Top-Versatility Control Complement

\$11 monthly

• Double Savings on Systems With Preamp in Kit Form

SYSTEM NO. 1—BASIC SYSTEM. Save \$11.44 on components purchased separately. Everything you need for recording studio-quality, 4-track stereo and monophonic tapes. Plays tapes back through your stereo music system. Complete provision for "sound-on-sound" and "echo-chamber" effects. Just assemble the easy-to-build KP-70 preamp kit, and your taping system is ready to use.

The KP-70 Stereo Tape Record/Playback Preamp Kit matches the KN-4000 transport perfectly. It features a complete set of concentric, clutch-type level controls, dual VU meters and an A-B monitor switch. It is 41/8 (plus 5/8" legs x151/2x9". (See facing page for a complete description.)

The KN-4000 Deluxe Pushbutton Tape Transport features three separate heads, three heavy-duty 4-pole motors, and seven convenient "keyboard" controls to handle all functions. Includes positive DC dynamic braking, tape counter and automatic shutoff. 7½ and 3¾ ips speeds. Size, 13½x15½x7". (See Knight section of catalog for a complete description.)

Both units are in Desert Beige and Sand Gold. With 3—1200-ft. reels of Knight KN-15 1½-mil tape and tape booklet. For 110-125 v., 60-cycle AC. Preamp is supplied less case (see below). Shpg. wt., 44 lbs.

22 HF 035-J. ONLY 215.95

22 HF 036-J. No. 2. Above With Factory-Wired Preamp...... ONLY 262.95 SYSTEM NO. 3. Basic system, plus high-fidelity stereo headset and splicing

kit. Shpg. wt., 47 lbs.
22 HF 037-J. Save \$13.38 On Components Purchased Separately. ONLY 249.50

22 HF 038-J. No. 4. Above With Factory-Wired Preamp......ONLY 296.95 SYSTEM NO. 5. Basic system, plus high-fidelity stereo headset, splicing kit and two KN-4500 microphones. Shpg. wt., 55 lbs.

and two KN-4500 microphones. Shpg. wt., 55 lbs.

22 HF 039-J. Save \$15.83 On Components Purchased Separately. ONLY 292.95

22 HF 040-J. No. 6. Above With Factory-Wired Preamp......ONLY 339.95

83 YX 936-J. Metal Case for KP-70. Shpg. wt., 5 lbs...............ONLY 4.95

7 Ways Easier, 7 Ways Better—Allied's Credit Fund Plan



32-Watt Stereo Hi-Fi Systems



ECONOMY STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$51,39!

Less Case

- Individual Components Purchased Separately Cost Up to \$184.34
- 820's Give 40-13,000 cps Response
- Autoslim Gently Handles Records

Complete custom ensemble for thrilling stereo record listening, centered around the new Knight-Kit KG-320 All-Transistor 32-Watt Amplifier. KG-320 in easy-to-build kit form, utilizes 14 transistors, 4 diodes-no warmup time, virtually no heat or hum. System Includes: Knight-Kit KG-320 32-Watt Stereo Amplifier Kit; Garrard Autoslim Record Changer and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, or Knight KN505X; plus two Knight KN-820 12" Hi-Fi Speakers. You get all cables for easy hook-up. Garrard Autoslim changer has quiet 4-pole motor. Knight KN-820 Speakers give smooth response. Less amplifier case, below. Changer base in mahogany, limed oak or walnut-specify. 33 lbs.

22 HF 003C-J. Specify Cartridge..... ONLY 132.95

ALTERNATE WITH SHELF-SPEAKER SYSTEMS SAVE UP TO \$56.84 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes components above with 2—Knight KN-281 Walnut Shelf-Speaker Systems in place of KN-820's; walnut changer base. Less amplifier case. 69 lbs.

22 HF 004-J. Specify CartridgeONLY 193.50



LOW-COST STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$55,391

System Price Less Case

- Individual Components Purchased Separately Cost Up to \$219.34
- 12" KN-830's Offer 3-Way Design

AT-6 Changer Plays All 4 Speeds

A tremendous value in a superb array of custom components. Save on Allied's system price, and by building the superb, all-transistor KG-320 yourself. System Includes: Knight-Kit KG-320 32-Watt Stereo Amplifier Kit; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, or Knight KN505X; plus two Knight KN-830 12" 3-Way Hi-Fi Speakers. All connecting cables are included. AT-6 Turntable combines changer convenience with turntable performance. Knight KN-830's provide brilliant, 40-18,000 cps response. Less amplifier case, listed below. Changer base in mahogany, limed oak, walnutspecify. Shpg. wt., 54 lbs.

22 HF 005C-J. Specify Cartridge ONLY 163.95

ALTERNATE WITH SHELF ENCLOSURES

SAVE UP TO \$59.29 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes all of the components of above system with the addition of Knight KN-1286 Walnut Shelf Speaker Enclosures. You can place the KN-1286's on shelves, mantels, etc. Walnut changer base. Less amplifier case, below. 104 lbs.

22 HF 006-J. Specify Cartridge.....ONLY 219.95

OPTIONAL CASES FOR KG-230 AND KU-45

- 83 YX 017-J. KG-320 Brown Metal Case, 5 lbs... 4.95 83 YX 016-J. KG-320 Wood Case. Walnut. 5 lbs... 9.95 83 YX 646-J. KU-45 Brown Metal Case. 5 lbs.... 7.95
- 83 YX 021-J. KU-45 Wood Case. Walnut. 7 lbs...14.95





STEREO MULTIPLEX FM/AM PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$60.39!

\$21995 Less Case

- Individual Components Purchased Separately Cost Up to \$280.34
- 8" KN-829's Give Amazing Response
- Autoslim Plays All 4 Speeds

Get thrilling stereo listening from your records or FM with this complete custom hi-fi ensemble. Big double savings: save on the cost of individual components; save because you build the receiver yourself. System features the Knight-Kit KU-45 Stereo FM/AM Receiver. In easy-to-build kit form, offers powerful 32-watt stereo output for brilliant response from any source; highly sensitive FM section with built-in multiplex circuit for reception of stereo multiplex FM broadcasts; plus AM section for keeping in touch with news, sports, etc.

System Includes: Knight-Kit KU-45 Receiver Kit; Garrard Autoslim Record Changer and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, or Knight KN505X; plus two Knight KN-829 8" Coaxial Hi-Fi Speakers. You also get all connecting cables for easy hookup of your system.

Popular Garrard Autoslim has quiet 4-pole motor, gently handles your precious records. Knight KN-829 Speakers offer 40-15,000 cps response. Have 8" woofer cone bass; compression-type tweeter for clear highs. Perfect for custom-mounting. Less receiver case. 65 lbs. Changer base in mahogany, limed oak or walnut—specify.

22 HF 007C-J. Specify Cartridge...........ONLY 219.95

ALTERNATE WITH SHELF ENCLOSURES

SAVE UP TO \$62.74 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes all of the components above, with the addition of Knight KN-1284 Walnut Shelf Enclosures. Extremely compact—you can place them anywhere. Walnut changer base. Less receiver case. Shpg. wt., 95 lbs.

22 HF 008-J. Specify Cartridge ONLY 257.50

DELUXE STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$65.391

\$28495 Less Case

- Individual Components Purchased Separately Cost Up to \$350.34
- KN-2200's Offer 3-Way Design
- Deluxe "A" Plays All 4 Speeds

This superb custom system components provides unusual flexibility of installation, striking luxurious styling, and truly thrilling performance. Brings you big double savings: save on the cost of individual components purchased separately; then save again because you build the amplifier yourself. System is highlighted by the new Knight-Kit KG-320 All-Transistor 32-Watt Stereo Amplifier in easy-to-build kit form. Elimination of output transformers and coupling capacitors makes possible a response that is virtually flawless.

System Includes: Knight-Kit KG-320 32-Watt Stereo Amplifier Kit; Garrard Type "A" Automatic Turntable and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, Knight KN-505X; plus two Knight KN-2200 3-Way High Compliance Speaker Systems. All connecting cables are provided.

Garrard Type "A" Automatic Turntable combines changer with turntables; Knight KN-2200 Speaker Systems employ 4 speakers—10" woofer, two 3½" mid-range/treble, and dome-type, UHF tweeter. Speaker systems and base in oiled walnut. Less amplifier case, listed on previous page. 108 lbs.

22 HF 009-J. Specify Cartridge.....ONLY 284.95



50-Watt Stereo Hi-Fi Systems



ECONOMY STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$54.39!

System Price

 Individual Components Purchased Separately Cost Up To \$204.34

• 12" KN-820's Give 40-13,000 cps

Autoslim Intermixes All Size

Distinguished by modern styling and reliable performance, this custom system is the ultimate in flexibility. The keystone of this ensemble is the all-new Knight-Kit KG-60 50-Watt All Transistor Amplifier in easy-to-build kit form. Compact, can be placed anywhere never any heat problems. System Includes: Knight-Kit KG-60 50-Watt Stereo Amplifier Kit; Garrard Autoslim Record Changer and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, or Knight KN505X; plus two Knight KN-820 12" Hi-Fi Speakers. You get all connecting cables. Garrard Autoslim Changer handles records with care. Knight KN-820 Speakers are only 4" deep. Less amplifier case, below. Changer base in mahogany, limed oak or walnut-specify. 34 lbs. 22 HF 010C-J. Specify Cartridge. ONLY 149.95

ALTERNATE WITH SHELF ENCLOSURES

SAVE UP TO \$60.29 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes components in above system with the addition of two Knight KN-1286 Walnut Shelf Speaker Enclosures; walnut record changer base. Less amplifier case. 84 lbs. 22 HF 011-J. Specify Cartridge...... ONLY 203.95



LOW-COST STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$59.39!

System Price

- Individual Components Purchased Separately Cost Up To \$239.34
- AT-6 Changer Plays All 4 Speeds • 12" KN-830's Offer 3-Way Design

Get stunning stereo with this fine array of custom components. System features the new Knight-Kit KG-60 50-Watt All-Transistor Stereo Amplifier in easy-to-build kit form. Utilizes 20 transistors and 6 diodes—no heat or hum problems. System Includes: Knight-Kit KG-60 50-Watt Stereo Amplifier Kit; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, Knight KN-505X; plus two Knight KN-830 12" Hi-Fi Speakers. You get all connecting cables. Garrard AT-6 offers smooth performance. Knight KN-830 Speakers provide 40-18,000 cps. Less amplifier case, below. Changer base in mahogany, limed oak or walnut-specify. 55 lbs.

ALTERNATE WITH FLOOR ENCLOSURES

SAVE UP TO \$63.29 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes components in above system with the addition of two Knight KN-1285 Floor Enclosures. Specify mahogany or walnut finish.

22 HF 013C-J. Specify Finish and Cartridge. ONLY 245.95

OPTIONAL CASES FOR KG-60 AMPLIFIER

METAL CASE. Brown finish, 5 lbs.		
83 YX 644-J.	ONLY	4.95
WOOD CASE. Hand-rubbed oiled walnut, 5	bs.	
83 YX 645-J	ONLY	9.95

eaturing Modern KG-60 All-Transistor Amplifier Kit



DELUXE STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$61.39!

- System Price . Individual Components Purchased Separately Cost Up To \$285.34
 - KN-281's Offer 2-Way Design
 - AT-6 Changer Plays All 4 Speeds

3reathtaking stereo and full flexibility—a winning custom combination. Features the new Knight-Kit KG-60 50-Watt All-Transistor Amplifier. Easy-to-build, decorator styling rirtually no hum or distortion. System Includes: Knight-Kit KG-60 50-Watt Stereo Amplifier Kit; Garrard AT-6 Automatic Turntable and Walnut Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT, Knight KN-505X; and two Knight KN-281 2-Way Walnut Shelf Speaker Systems. All connecting cables are included. Garrard AT-6 combines changer convenience and turntable performance. Knight KN-281's have 10" woofer, 2-31/2" tweeters, 30-15,000 cps response. Fit on shelves or even hang on walls. Less amplifier case. Wt., 73 lbs. 22 HF 014-J. Specify Cartridge.....ONLY 223.95

ALTERNATE WITH 3-WAY SPEAKER SYSTEMS SAVE UP TO \$66.39 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes components above with 2 Knight KN-2200 3-Way Walnut Speaker Systems in place of KN-281's; walnut changer base.



SUPER-DELUXE STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$65.39!

System Price 264⁹⁵ Less Case

- Individual Components Purchased Separately Cost Up To \$330.34
- 3-Way KN-612HC's Give Superb Response
 Type "A" Is Garrard's Finest

For those who insist upon the best, reproduces sound with fidelity to delight even a professional musician. Keystone is the new Knight-Kit KG-60 All-Transistor 50-Watt Stereo Amplifier. In easy-to-build kit form-provides flawless reproduction. System Includes: Knight-Kit KG-60 50-Watt Stereo Amplifier Kit; Garrard Type "A" Automatic Turntable and Base; your choice of any one of four stereo cartridges: Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; plus two Knight KN-612HC 3-Way 12" Hi-Fi Speakers. You get all connecting cables. Deluxe Type "A" combines changer convenience with turntable performance. Knight KN-612HC's offer 25-19,000 cps response. Less amplifier case. Changer base in mahogany, limed oak or walnut-specify, 86 lbs. 22 HF 016C-J. Specify Cartridge..... ONLY 264.95

ALTERNATE WITH 3-WAY SPEAKER SYSTEM

SAVE UP TO \$70.39 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. Includes components in above system with 2 Knight KN-2300 3-Way Walnut Speaker Systems in place of KN-612HC's; changer base. Offer 25-20,000 cps response. 153 lb 22 HF 017-J. Specify Cartridge.....ONLY 339.95



20-Watt Stereo Hi-Fi Systems



ECONOMY 20-WATT STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$50.39!

System Price \$9995 less case

- Individual Components Purchased Separately Cost Up to \$150.34
- KN-809's Deliver 50-12,000 cps.
- Autoslim Handles Records Gently

ALTERNATE WITH SHELF ENCLOSURES

SAVE UP TO \$51.74 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. As above, but with the addition of two Lincoln L-150 shelf enclosures. Mahogany, blonde or walnut leatherette finish. Shpg. wt., 67 lbs. 22 HF 019C-J. Specify finish and cartridge. ONLY 122.50

KG-250 Stereo
Amplifier Kit

Choose 1 Cartridge:
(L to R) Empire 880,
Shure M3D, Pickering U38AT, Knight
KN-820 12'
Speaker Enclosures

Garrard
AT-6,
Base.

DELUXE 20-WATT STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$53.78!

System Price \$12495

- Individual Components Purchased Sepa ately Cost Up to \$178.73
- KN-820 s Deliver 40-13,000 cps
 AT-6 Handles Records Gently

A music system offering remarkable stereo fidelity that everyone in the family will enjoy. Basic to the system is the exciting KG-250 20-Watt Stereo Amplifier that includes DC on all preamp tube filaments, four stereo inputs and a host of other important features. System Includes: Knight-Kit KG-250 20-Watt Stereo Amplifier; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four stereo cartridges—Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; Two Knight KN-820 12" Hi-FI Speakers. And you get all necessary connecting cables. The AT-6 offers precision operation. The KN-820 speakers feature superior sound. Less amplifier case (listed below). Changer base in mahogany, limed oak or walnut—specify. Wt. 47 lbs.

22 HF 020C-J. Specify cartridge.....ONLY 124.95

ALTERNATE WITH SHELF ENCLOSURES

SAVE UP TO \$60.29 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. As above, but with the addition of two Knight KN-1286 shelf enclosures. In walnut finish only. With walnut changer base. Specify cartridge. 97 lbs.

22 HF 021C-J. \$9 Monthly.....ONLY 178.95

01	PTIC	DNAL	CASE	S FOR	AM	PLIFIER	RS. 5 lbs	
83	YX	031-J.	Metal	Base	For I	KG-250		3.95
83	YX	030-J.	Wood	Case	For	KG-250	Walnut	0.05
83	YX	024-J.	Metal	Case	For I	KG-400		2 05
83	YX	023-J.	Wood	Case	For	KG-400.	Walnut.	9.95

Money-Saving 32-Watt Stereo Hi-Fi Systems



CONOMY 32-WATT STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$54.39!

System Price \$12995

- Individual Components Purchased Separately Cost Up to \$184.34
- KN-820's Deliver 40-13,000 cps
- Autoslim Intermixes All Sizes

xciting stereo sound from carefully balanced components yours with this budget-priced music system. Features the un-to-build KG-400 32-watt Stereo Amplifier with ganged ass and treble controls, separate recording outputs, one-nob balance control and many other highlights. System ncludes: Knight-Kit 32-Watt Stereo Amplifier; Garrard Autoslim Changer and Base; your choice of any one of our cartridges—Empire 880, Shure M3D, Pickering U38AT r Knight KN-505X; two Knight KN-820 Hi-Fi Speakers. And all connecting cables. Autoslim changer shuts off automatically after last record—handles records gently. KN-820 speakers utilize two cones for superior sound. Less implifier case (facing page). Changer base in mahogany, lmed oak or walnut—specify. 50 lbs.

2 HF 022-J. Specify cartridge...........ONLY 129.95

ALTERNATE WITH SHELF ENCLOSURES

PURCHASED SEPARATELY. As above, but with the addition of two KN-1286 shelf enclosures. In walnut finish only. With walnut changer base. Specify cartridge. Shpg. vt., 100 lbs.



DELUXE 32-WATT STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$59.39!

System Price \$15995

- Individual Components Purchased Separately Cost Up to \$219.34
- KN-830's Deliver 40-18,000 cps
 AT-6 HasWeighted Turntable

A music system that delivers wide-range, full dimensional, extraordinarily natural stereo sound. Highlights the Knight-Kit KG-400 32-watt Stereo Amplifier Kit offering many deluxe features. System Includes: Knight-Kit 32-Watt Stereo Amplifier; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four cartridges—Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; two KN-830 3-Way Hi-Fi Speakers. Plus all necessary cables and plugs. The AT-6 Automatic Turntable combines changer convenience with the smooth, précision performance. KN-830 3-way speakers have woofers, mid-range radiators and UHF driver for superb sound. Less amplifier case (facing page). Changer base in mahogany, limed oak or walnut—specify. 71 lbs.

22 HF 024C-J. Specify cartridge.....ONLY 159.95

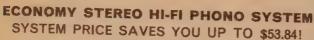
ALTERNATE WITH SHELF SPEAKER SYSTEMS SAVE UP TO \$61.84 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. As above, but with two 2-way KN-281 speaker systems in oiled walnut veneer on all sides. Also includes matching walnut changer base. Specify choice of cartridge. Wt., 89 lbs.

22 HF 025C-J. \$11 Monthly...................................ONLY 203.50

Knight-kit®

40-Watt Stereo Hi-Fi System.





\$17650 \$9 monthly

- Individual Components Purchased Separately Cost Up to \$230.34
- KN-1200's Deliver 40-14,000 cps
- Autoslim Changer Plays all 4 speeds

A system carefully selected to offer superb stereo at a moderate price. Heart of this system is the easy-to-build Knight-Kit KA-55 Stereo Amplifier delivering 40-watts of power. Features full-range center-channel output and has five pairs of stereo inputs. System Includes: Knight-Kit KA-55 40-Watt Stereo Amplifier Kit; Garrard Autoslim Record Changer and Base; your choice of any one of four stereo cartridges—Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; two Knight KN-1200 12" Hi-Fi Speakers. Plus connecting cables. Garrard Autoslim Changer plays smoothly. KN-1200 speakers deliver wide frequency range. With amplifier case. Changer base in mahogany, limed oak or walnut—specify. 71 lbs.

22 HF 026C-J. Specify Cartridge. ONLY 176.50

ALTERNATE WITH SHELF ENCLOSURE

SAVE UP TO \$62.29 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. As above, but with the addition of Knight KN-1286 shelf enclosures; walnut changer base. In walnut finish. Specify choice of cartridge. 124 lbs.

22 HF 027-J. \$12 Monthly.....ONLY 227.95

MONEY-BACK GUARANTEE ON KNIGHT-KITS. Knight-Kits must meet with your satisfaction or your purchase price will be refunded.

NO MONEY DOWN WITH ALLIED'S CREDIT FUND PLAN. You can take up to 24 months to pay. Boosts your purchasing power!



DELUXE STEREO HI-FI PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$56.39!

\$18295 \$10 monthly Individual Components Purchased Separately Cost Up to \$239.34
 KN-830's Deliver 40-18,000 cps

V 4

AT-6 Plays All Speeds

A deluxe phono system that reveals the full range of the stereo sound spectrum through outstanding components. Central to the system is the Knight-Kit KA-55 Stereo Amplifier Kit. Has separate bass and treble controls, center-channel output and many other features. System Includes: Knight-Kit KA-55 40-watt Stereo Amplifier Kit; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four Stereo cartridges—Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; Two Knight KN-830 3-Way 12" Speakers. Also all connecting cables you need. Garrard AT-6 combines best features of turntable and changer, KN-830 speakers have ceramic Indox magnets and 2" edgewound voice coils. With amplifier case. Changer base in mahogany, limed oak or walnut—specify. 73 lbs.

22 HF 028C-J. Specify-cartridge ONLY 182.95

Big Savings on 70-Watt Stereo Hi-Fi Systems



ECONOMY 70-WATT STEREO PHONO SYSTEM

SYSTEM PRICE SAVES YOU UP TO \$59.39!

\$21995

\$11 monthly

- Individual Components Purchased Separately Cost Up to \$279.34
- KN-830's Deliver 40-18,000 cps
- AT-6 Offers Turntable Precision

Flawless sound throughout the entire stereo range is yours with this wonderful music system. Features the easily-assembled KA-95 Stereo Amplifier Kit that gives 70 watts of undistorted power and has every conceivable control. System Includes: Knight-Kit KA-95 70-Watt Stereo Amplifier Kit; Garrard AT-6 Automatic Turntable and Base; your choice of any one of four Stereo cartridges—Empire 880, Shure M3D, Pickering U38T or Knight KN-505X; two Knight KN-830 3-Way 12" Speakers. And all connecting cables necessary. Garrard AT-6 offers turntable performance and changer convenience—records sound better and last longer. KN-830 speakers employ woofers, midrange radiators and VHF drivers. With amplifier case and changer base. Changer base in mahogany, limed oak or walnut. Shpg. wt., 77 lbs.

22 HF 030C-J. Specify Cartridge.....ONLY 219.95

ALTERNATE WITH SHELF SPEAKER SYSTEMS SAVE UP TO \$66.39 OFF THE COST OF COMPONENTS PURCHASED SEPARATELY. As above, but with Knight KN-2200 3-way speaker systems finished in oiled walnut. Walnut changer base. Specify your choice of cartridge. Wt., 123 lbs.

22 HF 031-J. \$15 Monthly NET 318.95



DELUXE 70-WATT STEREO PHONO SYSTEM SYSTEM PRICE SAVES YOU UP TO \$65.39!

\$30495

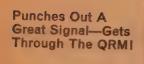
- Individual Components Purchased Separately Cost Up to \$370.34
- 612 HC's Deliver 25-18,000 cps
- Versatile Type "A" Turntable

Stereo magnificence—you get the ultimate in breathtaking stereo sound from this deluxe system. Its center is the outstanding Knight-Kit KA-95 Stereo Amplifier Kit. Furnishes 70 watts of undistorted power and offers every needed control—center channel output, balance adjustments and unique monitoring facilities—to mention a few. Deluxe ensemble includes: Knight KA-95 70-Watt Stereo Amplifier Kit; Garrard Type "A" Automatic Turntable and base; your choice of any one of four Stereo cartridges—Empire 880, Shure M3D, Pickering U38AT or Knight KN-505X; two Knight 612 HC 3-way 12" Speakers. Plus all cables and speaker hook-up wire. The Type "A" is Garrard's finest unit. 612HC speakers produce natural sound. With amplifier case and changer base. Changer base in mahogany, limed oak or walnut. 107 lbs.

22 HF 032C-J. Specify Cartridge ONLY 304.95

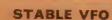


Build Your Own Ham Station





- √ Voltage Regulator in B+
 for Stable Operation
- √ Pi-Net Output Matches
 40-600 Ohm Antennas
- ✓ Standby, Remote Standby and Power Takeoff Plugs
- Buffer Stage Isolates Oscillator from Output



Only Drifts 200 cps from 10-30 Minutes; Practically Stands Still After That.

TWIN 6146's

Tubes are Parallei-Connected for RF Output; Conservatively Operated for Long Life.

HANDY METER

Reads Buffer and Final Grid Current, Final Plate Current, Relative Power Out.



New! T-150 150-Watt, AM-CW Transmitter Kill

Only

\$11995

\$6 monthly

- 150-Watt Input 80-10 Meters; 100-Watt on 6 Meters
- Controlled Carrier Screen Modulation for Max Power
- Stable Built-In VFO Has Planetary Drive Tuning
- Clean, Chirpless Keying—No HV at Key Terminals
- Adjustable Pi-Net Output Matches 40-600 Ohm Ant

Jam-packed with features for the Amateur who appreciates a clean, quality signal and wants the most "watts-per-dollar" in his rig! The Knight-Kit T-150 operates with 150 watts peak AM/CW input on 80 through 10 meters and 100 watts peak AM/CW on 6 meters. A specially designed VFO provides highly stable frequency control on all bands. The VFO has indirectly illuminated dial scale and planetary drive for easy tuning without backlash. A socket is provided for optional crystal operation—switch selected with VFO.

Outstanding features include: controlled-carrier screen modulation for maximum talk-power; adjustable pi-network output circuit matches 40 to 600-ohm antenna impedances; buffer stage isolates oscillator from output stage; silicon diodes for reliable high-voltage; voltage regulator in B+; pair of 6146 tubes in parallel for output; single-knob bandswitching; minimum TVI with all leads in and out of case by-passed for RF.

Meter switch allows quick, precise reading of buffer grid current, final grid current, final plate current, and relative power output. Frequency spotting selectorswitch position allows tuning of the transmitter before switching on the final amplifier. This also enables you to zero beat an incoming signal without placing the transmitter on-the-air. Keying is clean and chirpless with no high-voltage appearing at the key terminals. For phone operation, mike circuit accepts Hi-Z dynamic or crystal mikes; uses Amphenol PCIM type connector. A standard phone jack is used for key.

Knight-Kits Are Guaranteed to Meet Your Satisfaction



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R-100A Receiver Shown With Optional S-Meter Accessory

New! R-100A Communications Receiver Kit

Only

\$5 monthly

- Better Than 1½ Microvolt Sensitivity for 10:1 S/N
- Built-In Q Multiplier Works on CW / AM /SSB—Peaks Desired Signal or Nulls QRM—Has 60 db Notch
- Continuously Variable Selectivity 300 cps to 4½ kc
- Covers 540 to 30 mc—Bandspread on 80-10 Meters

A world-famous value in communications equipment, the R-100A receiver kit s the top choice of the experienced Amateur who knows and wants the very pest! Designed by Ham engineers to meet every Ham need, this receiver has all the features, selectivity, sensitivity and stability of factory-wired units costng far more. Employs the Knight-Kit printed circuit bandswitch and modern etched circuit boards to eliminate critical "lead dress", to reduce construction ime, and assure stable, reliable performance.

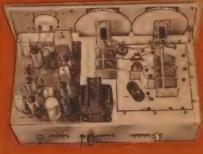
Coverage is from 540 kc to 30 mc in 4 bandswitched ranges, with calibrated electrical bandspread on all Ham bands. Built-in Q multiplier works on CW/ AM/SSB, peaks desired signals or nulls out interference-60 db notch really unifes through QRM! Selectivity is continuously variable from 300 cps to $4\frac{1}{2}$ at 6 db down. VR tube-regulated B+ on HF oscillator permits switching from standby to receive without drift. Has Exalted BFO injection for quality SSB reception; MVC; delayed AVC; and noise limiter.

Exceptional sensitivity on 10 meters—better than 11/2 microvolts for a 10:1 signal-to-noise ratio. On 40 and 80 meters, sensitivity is actually $\frac{1}{2}$ to $\frac{3}{4}$ microvolts for the same 10:1 signal-to-noise ratio! Close tolerance, slug-tuned Hi-Q coils assure minimum alignment time. Has coax and screw terminal antenna connections for 50 to 300-ohm lines; convenient front-panel located headphone jack; and provision for building in a crystal calibrator. Tubes: 6BZ6, 6BH8, 2-6AZ8, 6BC7, 6AW8A, 12AX7, OB2, and 6X4 rectifier.

Step-by-step instructions with picture diagrams make error-free assembly an easy matter. Gray metal case, 91/8x171/8x95/8". With all parts. Less S-meter, speaker, below. For 110-125 v., 60 cycle AC. 31 lbs.

83 YU 406-J. \$5 Monthly ONLY 99.95 83 Y 423-J. S-Meter Kit. Reads to +20 db over S9. Wt., 12 oz....ONLY 12.95

83 Y 424-J. Speaker Kit. Special-design 4" speaker peaks voice frequencies.



- Circuit Boards Eliminate Critical "Lead Dress"
- **Built-In Q Multiplier** Works on CW /AM /SSB
- J Exalted BFO Injection for Quality SSB
- No Dial Stringing Vernier Shaft Drive



CONVENIENT PRINTED CIRCUIT BANDSWITCH

Knight-Kit innovation-reduces assembly time to a minimum, and makes an extremely important contribution to stability and overall performance. Simply plug the bandswitch into the RF circuit board, solder, and you've made 32 error-free connections! Eliminates critical lead dress in oscillator, RF, and mixer sections-you really can't go wrong!



THERE'S MORE FOR THE HAM IN KNIGHT-KITS!



ACCEPTED LEADERSHIP

For many years, beginners in Amateur Radio, as well as seasoned Hams, have looked to Knight-Kit for the best selection, best value, and finest Ham-to-Ham treatment. You can choose from the world's foremost designed array of do-it-yourself equipment-secure in the fact that Ham quality, pace-setting design, performance-proven circuitry, plus substantial dollar savings over the cost of factory-built rigs are an integral part of every Knight-Kit.

CREDIT FUND PLAN

Why wait?-Now's the time to put together that station you've always wanted. Allied's Credit Fund Plan gets you on the air with no money down and up to 24 months to pay. Own any of the FB Knight-Kit gear for just a small monthly payment. Bring the shack up to dateenjoy DX, ragchews and contests right away. See details on Page 456.

T-60 60-Watt AM-CW Transmitter

Only

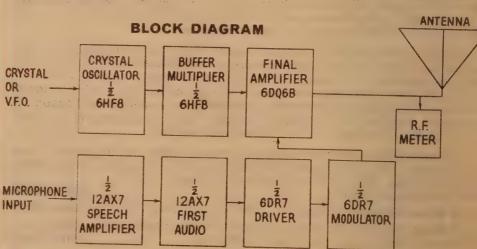
\$5 monthly

- . Phone and CW on 80 Through 6 Meters
- 60 Watts CW / Peak AM Input-Slightly Less on 6
- Controlled-Carrier Screen Modulation—Pi-Net Output
- Clean, Chirp-Free Keying-No High Voltage On Key
- Single-Knob Bandswitching—Fast, Easy Tune-Up

The Knight-Kit T-60 is one of the greatest values in an AM phone and CW transmitter available anywhere. It contains all the most wanted features asked for by Novices and newly licensed Generals looking for a "first rig"—plus more than enough power and frequency coverage to make it an excellent transmitter for the Technician or advanced Amateur who needs a "standby" unit. It's the ideal "second rig" for emergency use, portable work on Field Day, vacations, summer outings, etc.

Has: 60 watts input, peak AM and CW, on 5 bands (slightly less on 6 meters). single-knob bandswitching; efficient peak carrier-controlled modulation; clean, simultaneous-cathode keying system with bias resistor-no high voltage at key; adjustable pi-coupler matches any 40-600 ohm antennas; "Tune" position protects final by limiting input during easy tune-up procedure-you merely tune for maximum RF on the large panel meter; plenty of filtering and by-passing to reduce TVI; fused silicon rectifier power supply.

Final works "straight through" on all bands but 6 meters, where it doubles. Requires VFO or crystals (3.5-mc types for 80, 7-mc types for 40-10, 8-mc types for 6). Rear-panel socket provides 410 VDC and 6.3 VAC to power VFO, TR switch, etc.; also has relay switching terminals. 5x12x7". With wire, solder, instructions. Less key, mike, crystals. For 110-125 v., 60 cycle AC. 16 lbs.





R-55 Communications Receiver Kit

Only

new low price

• 5 Bands—Tunes 530 kc to 36 mc and 47 to 54 mc

• Fused Transformer Power Supply With Filter Choke

Two IF Stages for High Sensitivity Selectivity

Calibrated Electrical Bandspread—Easy Tuning

· Large, Edge-Illuminated Slide Rule Dial

Whether you're a discriminating shortwave radio fan, red-hot electronics enhusiast, or beginning Ham, here's an advanced-design receiver just for you. The R-55, created for reliable 'round-the-world listening, tunes the broadcast and shortwave bands from 530 kc to 36 mc, plus 47 to 54 mc. Separate directeading scales are provided for the 80 through 6 meter Ham bands with electrical bandspread on all bands.

The superhet circuit has two 1650-kc IF stages for top sensitivity, sharp selectivity and high image rejection. Other "expensive set" features include: AVC circuit to avoid "blasting" and reduce fading; noise limiter; BFO for code reception; standby switch; antenna trimmer; and a headphone jack. Flywheelloaded main tuning, bandspread control and huge slide-rule dial all contribute to smooth, effortless station selection.

Includes provision for adding a crystal calibrator (see below). Has fused, transformer-type power supply with filter choke for excellent voltage regulation. Special modular coil assemblies provide greater ease of construction and improved shielding. Gray metal cabinet has charcoal-gray and aluminum panel, black knobs. With all parts, speaker, wire, solder and instructions. 8x 141/4x11". For 110-125 v., 60 cycle AC. Shpg. wt., 24 lbs.

83 YU 935-J. \$5 Monthly.....ONLY 59.95

83 Y 256-J. Crystal Calibrator Kit. Builds into R-55. Gives 100-kc markers. Size, 3½x2½x1½". Shpg. wt., 1 lb. 22211. 3222. 2011. ONLY 10.95

- SPECIFICATIONS

Tuning Ranges: BAND A, 530-1900 kc; BAND B, 1800 kc-6.3 mc; BAND C, 6-14.5 mc; BAND D, 11.5-33 mc; BAND E, 47-54 mc. Antenna Input Impedance: 52 ohms. Image Rejection: 42 db at 80 meters; 14 db at 6 meters. IF: 1650 kc. Tube Complement: 5 plus EZ90 rectifier.

JUST THREE OF ITS **OUTSTANDING FEATURES**

SLIDE RULE DIAL



Extra-large dial scales are accurately calibrated for every band-edgeilluminated for easy reading, too. Red and green pointers show main tuning and bandspread tuning at a glance. Clear plexiglass dial.

BANDSPREAD TUNING



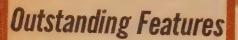
Electrical bandspread is incorporated on all Amateur bands from 80 to 6 metersindividual scales are calibrated to read direct on each scale. Flywheel tuning.

BUILT-IN SPEAKER



A specially-designed 31/2" speaker is mounted on the right side of the cover. It has perfect response for the frequencies used in communications. R-55 can also be used with headphones.





Flexible 2 Unit Design
Full Kilowatt Capacity
Requires No Power / Batteries
Reads SWR from 1:1 to 20:1
Can be Left in Line
as Constant Monitor
Accuracy Better than 10%
Has Coax Connectors
For Unbalanced 50-72 Ohm
Lines—Amateur and CB
Range from 1.8 to 432 Mc
Negligible Insertion Loss
Has Sensitivity Adjustment





Model P-2 SWR / Power Meter Ki

Only \$1495

- For 50 to 72 Ohm Lines—Amateur and Citizens Ba
- Full Kilowatt Capacity; Range from 1.8 mc to 432 r
- Flexible 2-Unit Design—Coupler and Indicator
- Negligible Loss—May Be Left in Line Permanent

Be sure you're getting the most from your transmitter and antenna! Use the new "in-line" type SWR/power meter to provide a constant check of your rige efficiency. It measures relative power being fed to antenna and standing wave ratio reflected from it. Permits making your own matching adjustment between line and driven element for maximum RF.

With negligible power loss, it may be left in line permanently. Features to unit construction—coupler and indicator units, connected by a four-fo shielded cable. Uses coax connectors. Full kilowatt capacity, too. Require 35 watts for full scale meter deflection on 80 meters; less than 1 watt at meter; accuracy better than 10%. Operating range is from 1.8 to 432 mc.

Designed for unbalanced 50-72 ohm lines, Amateur and Citizens Band. Requires no AC power or batteries. 100 microvolt meter reads SWR from 1:1 20:1, and relative power from 0 to 10. Styled in gray satin—matches T-60 an T-150 Knight-Kit transmitters. Sizes: coupler, 2x5x2½; indicator, 2½x6½x3 Complete with all parts and instructions. Shpg. wt., 2 lbs.

83 YX 627-J.

ONLY 14.9

Low Cost 100-Kc Crystal Calibrator Kit

Only SIN95

- Gives Marker Every 100-Kc to About 35-Mc
- Convenient Trimmer for Zero-Beating With WWV
- Builds Into Knight-Kit R-100A and R-55 Receivers

Here's a low-cost secondary frequency standard producing harmonics ever 100 kc, usable to about 35 mc. Ideal for Knight-Kit R-100A and R-55 receiver as well as other receivers. Requires power from receiver; 6.3 volts AC or DC at 150 milliamps, and 150 to 300 volts DC at 6 and 3 milliamps respectively. The 100 kc harmonics give check points in the 160 to 10 meter Ham bands, and through the international shortwave radio bands. These markers provide extremely accurate calibration for shortwave and Amateur receivers. Includes trimmer for zero-beating with WWV; and on-off switch. Crystal is hermetically sealed. Complete with all parts, instructions. 3½x2½x1½. 12 oz.



- Continuous Overlapping Coverage, 1.5 to 300 mc
- Easy-to-Read—Each Range Colored to Match
- Coil Socket Accepts Standard Spaced Crystals
- Extremely Compact—Only 11/2" Deep
- Undamped Meter Movement Assures Quick Response
- Use As Signal Gen., Wavemeter and Oscillator

ou'll find hundreds of uses for this invaluable instruent in and around your Amateur station. It not only erves as a grid dip oscillator to determine the frequency resonant circuits, but as an oscillating detector, signal enerator, and absorption wavemeter. Covers 1.5 to 300 mc 6 overlapping ranges. Finely calibrated dial and mov-ble hairline cursor, allow precise setting and highly acurate readings—on any segment of its frequency range! xcellent for receiver alignment, determining the exact ength of transmitting and receiving antennas, adjustment f wave traps, finding parasitic oscillations, adjusting ntenna matching stubs, and many, many more.

Ranges are color-coded to match coils. Has undamped meter movement for quick response and variable sensitivity control for optimum grid current adjustment. Stable oscillation-entire band may be tuned with one adjustment of the gain control. High-grade molded socket withstands rugged use-holds plug-in coils securely, too. A phone jack permits use as a modulation monitor and regenerative detector. Use also for determining inductance and capacitance. Uses a 6AF4A oscillator; selenium rectifier. Size, 6%x3½x1%. Includes plastic case with 6 coils, all parts. For 110-125 v., 50-60 cycle AC. 2 lbs.

83 Y 721-J. \$5 Monthly ONLY 22.95



Model V-44 Self-Powered VFO Kit

- Can Be Directly Keyed for Break-In Operation
- Has "Calibrate" Position for Zeroing VFO to Receiver
- Designed for High Stability—Uses Clapp Oscillator
- Calibrated 80-10 Meters; Output on 80 and 40 Meters

Here's the deluxe, high-quality VFO with an established reputation for stability-at a real bargain price! Calibrated for 80, 40, 20, 15, and 10 meters, with output on 80 and 40. Output of 40 volts on 80 meters, and 20 volts on 40 meters, is more than adequate to excite oscillator stage of almost any transmitter. Drift-free, series-tuned Clapp oscillator uses 1% silver mica capacitors. Oscillator tank coil is wound on heavy ceramic form; uses air dielectric padders. Power supply is mounted above oscillator to keep heat from frequencydetermining circuits. Frequency stability is achieved by careful design and rigid mechanical construction. VFO may be directly keyed for "break-in" operation. Also has "Calibrate" switch position for zeroing VFO to receiver; vernier planetary drive mechanism; front panel key jack. Size 83/4x61/6x53/6". With all parts, wire and solder, easy-to-follow instructions. For 110-125 v., 60 cycle AC. Wt. 10 lbs. 83 Y 725-J. \$5 Monthly.....ONLY 29.95



CITIZENS BAND TRANSCEIVER KITS

IT'S EASY TO BUILD YOUR OWN LOW-COST 2-WAY RADIO. Every detail is engineered for the maximum in building ease. You are guided through each step of the fun-filled assembly by the world's finest "do-it-yourself" instructions. Carefully marked parts eliminate guesswork.

NO LICENSE EXAMINATION IS NECESSARY. Any U.S. citizen, 18 years of age or older, is entitled to enjoy the many business and personal benefits of Citizens Radio simply by applying to the Federal Communications Commission for a station permit. Just fill out and mail the form you get with your Knight-Kit transceiver.

OPERATING RANGES. Effective ranges vary with the height and type of antennas used, and terrain. With the maximum legal input of 5 watts, ranges of from 5 up to 25 miles may be expected.

MONEY-BACK GUARANTEE. You must be satisfied with your Knight-Kit or your purchase price will be promptly refunded.

CREDIT FUND PLAN. You can own a Knight-Kit Citizens Band system for no money down, low monthly payments and up to two years to pay. Details on our Credit Fund Plan are at the back of this catalog.

New Model C-22 Transceiver Kit

Only

\$5 monthly

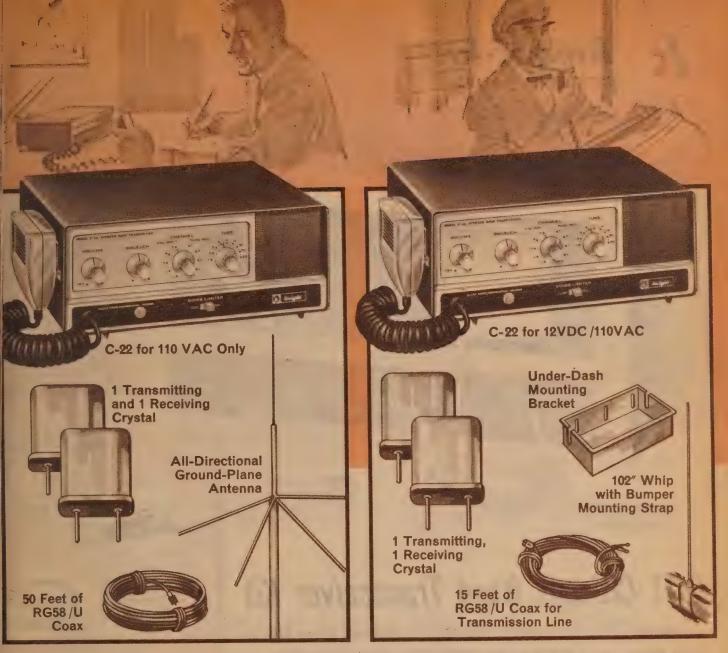
- Provision for 5 Crystal-Controlled Transmit-Received Channels—Plus Tunable, All-Channel Reception
- Efficient, Fully Modulated 5-Watt Transmitter
- Sensitive Superhet—Variable Squelch—Noise Limite
- Operating Range to 20 Miles Over Ideal Terrain

UNIVERSAL MODEL. Just out . . . a versatile transceiver kit simply jam-packe with important features for the discriminating Citizens Band operator! De signed in the Knight-Kit tradition of craftsmanship and dependability a modest cost, the C-22 offers top-notch performance either as a fixed or mobil station. Compact size, easy accessibility of controls, handy press-to-talk opera tion, and self-contained power supply for 110VAC/12VDC-all combine to make it superb for any CB application.

The C-22 employs crystal-controlled transmit-receive sections that operate or any 5 switch-selected channels (with crystals, below)-or, at the flick of switch, receiver may be manually tuned through all 22 channels. Transmitte runs a full, 100% modulated 5-watts input with an adjustable pi-network circui for positive impedance match with any antenna. Front-panel RF indicator per mits fast tune-up for maximum power output. Superheterodyne receiver pro vides excellent sensitivity and selectivity figures. Sensitivity, 1 μv for 10 dt signal-to-noise ratio. Selectivity is 6 ½ kc at 6 db down with 25 db of adjacent channel rejection—highly important in big city interference. Receiver also has variable squelch control, noise limiter, smooth-tuning planetary drive mechan ism, plus 21/2-watt audio section and 3" speaker for loud, clear reception. Edge lit panel illuminates essential controls. 54-mc harmonic trap reduces TV interference. Has 6 tubes (and 5 diodes) for top performance. Size, 49/16x1013/16x101/2" With all parts, wire, solder, press-to-talk ceramic mike, and easy-to-follow instructions. Less crystals, below. Fused power supply for 110-125 volts, 60 cycle AC or 12 volts DC. Wt., 12 lbs,

83 YX 802-J. \$5 Monthly......ONLY 69.95 83 YX 801-J. Std. C-22. For 110-125 v., 60 cycle AC only......ONLY 64.95 83 YX 009-J. Mobile Mtg. Bracket. For C-22. Wt., 3 lbs............ONLY 4.95 83 YY 046-J. Transmitting Crystals. Specify channels 1-22 (C-22 accommo-83 YY 045-J. Receiving Crystals. Specify channels (C-22 takes 5)....EA. 2.50

You Get More for Your Money with a Knight-Kit!



Complete CB Base Station Kit

Only

- Fixed-Station Package Featuring the Standard Model C-22 Kit
- For Home, Office, Farm, Dock
- Absolutely Nothing More to Buy

Another Knight-Kit Citizens Band exclusive that's really easy on the pocketbook! It's a complete, easy-to-build base-station communications setup-and you save \$4.33 over the cost of the components purchased separately. Here's what you get: 1 all-new Standard C-22 Transceiver Kit with Press-to-Talk Microphone, Coil-Cord, and built-in AC Power Supply; 1 all-directional Ground-Plane Antenna; 1 Transmitting Crystal; 1 Receiving Crystal; 50 Feet of rugged, weatherproofed RG58/U Coaxial Cable for transmission line; and all necessary Connectors.

Ground-plane antenna is a full-sized 1/4-wave radiating element with 4 radials. Provides 360° radiation pattern for efficient, all-directional base-station coverage. Two U-bolts hold all-aluminum antenna firmly to any pipe or mast up to 13/4" dia. (Mast is not supplied.) Standard C-22 Transceiver Kit has power supply for 110-125 volts, 60 cycle AC. Complete with 1 transmitting and 1 receiving crystal (specify channels 1-22), all tubes, parts, and famous Knight-Kit step-by-step, easy-to-follow instructions. Shpg. wt., 26 lbs.

21 HF 062-J. \$5 Monthly.....ONLY 77.50

Complete CB Mobile Station Kit

Only \$QC95

- Mobile-Station Package Featuring the Universal Model C-22 Kit
- For Car, Truck, Tractor, Boat
- Absolutely Nothing More to Buy

A brand-new, easy-to-assemble Knight-Kit mobile station priced \$4.58 below the normal cost of the individual components. Makes a splendid "add-on" mobile unit to any existing Citizens Radio communications system. Bargain package consists of: 1 all-new Universal C-22 Transceiver Kit with Press-to-Talk Microphone, Coil-Cord, and selfcontained Power Supply for either mobile or base-station use; Under-Dash Mounting Bracket; 102" Whip with Bumper Mounting Strap; 1 Transmitting Crystal; 1 Receiving Crystal; 15 Feet of weatherproofed RG58/U Coax for transmission line; all Connectors.

Mobile antenna, a stainless steel whip 102" long, has chrome-plated hardware and mounting strap to fit any car bumper. Rugged RG58/U coaxial cable serves as your transmission line. All necessary connectors are supplied. Universal C-22 Transceiver Kit is for either 110-125 volts, 60 cycle AC (may be used as a base unit) or 12 volts DC. With 1 transmitting and 1 receiving crystal (specify choice of channels 1-22), all parts, and Knight-Kit step-by-step instructions. Shpg. wt., 24 lbs.

21 HF 063-J. \$5 Monthly.....ONLY 86.95





UNLIMITED APPLICATIONS

Auto-to-Home

C-11 Citizens Band Transceiver Kit

Only \$3995

\$5 monthly

Easy to Build.

Easy to Use

• Full 5-Watt Transmitter For Maximum Signal Strength

Intercom-Type Switch Selects Transmit /Receive

Super-Regenerative Circuit With RF Stage Provides
 Excellent Sensitivity

Automatic Volume Control and Noise Limiting Circuitry

A super-value Citizens Band transceiver kit that puts dependable two-way radio communication within reach of any U.S. citizen, 18 years of age or older. Exceptionally low in cost, the C-11 incorporates an efficient 5-watt transmitter and a manually tunable, 22-channel super-regenerative receiver. A handy intercom-type switch selects "Transmit" and "Receive" functions. Switch incorporates two "Transmit" positions—one with automatic spring-return to "Receive" position, the other to lock unit in "Transmit." Other front-panel controls are Off-On-Volume, and Channel Tuning knob. Ceramic mike hangs on handy front panel hook when not in use.

USEFUL ACCESSORIES FOR C-11 TRANSCEIVERS

83 Y 724-J. Mobile Mounting Bracket. For under-dash mounting. 3 lbs....4.95 83 Y 937-J. 12-Volt Mobile Power Supply Kit. Shpg. wt., 5 lbs.....ONLY 7.95 83 YY 921. Transmitting Crystal. Channels 1-22, specify. 3 oz.....ONLY 2.50

Use Your Credit Fund . . . See Page 456







Work Crew to-Foreman







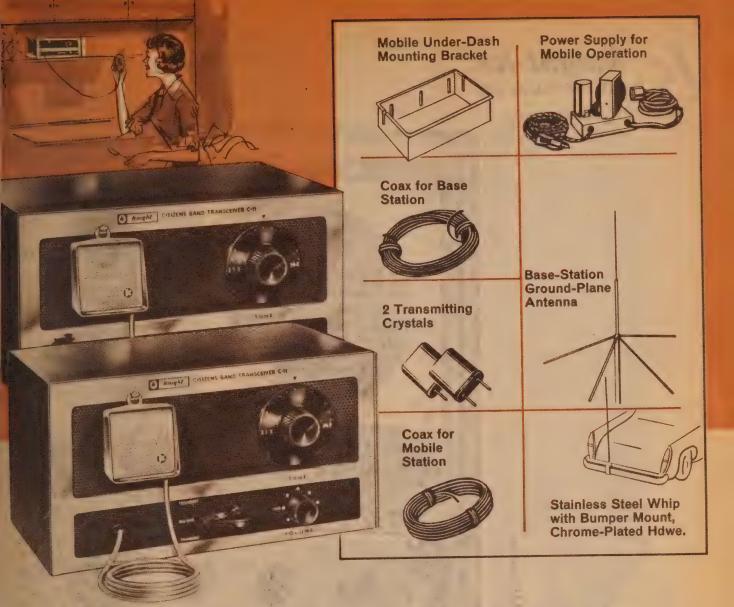
Ship-to-Shore

Repair Shopto-Service Car





Farming Uses
Tractor-to-Barn



Complete 2-Station Base / Mobile CB System

Complete System

\$11395

- Everything You Need for 2-Way CB Communications—Nothing More to Buy!
- Features 2 Efficient, Easy-to-Build Knight-Kit C-11 Transceivers
- Auto-to-Home, Auto-to-Office and Many More Uses
- Comes With Famous Knight-Kit Step-by-Step Assembly Instructions

dere's a budget-priced Knight-Kit exclusive—your own nobile /base communications system in one easy-to-build package! It's perfect for auto to home, auto to office, ruck to garage, and a host of other business, personal and farm applications. And you save \$7.36 on the cost of the components in the bargain!

System includes: 2 Knight-Kit C-11 Transceiver Kits with Ceramic Microphones; choice of 2 Transmitting Crystals; 12-Volt Mobile Power Supply Kit with Cables; Mobile Under-Dash Mounting Bracket; Ground-Plane Antenna for base station; Whip Antenna with Bumper Mounting Strap; Connectors; 65 Feet of weatherproofed RG58/U Coaxial Cable for transmission line.

Full-sized 1/4-wave ground plane provides efficient 360° coverage—has U-bolts for pipe or mast up to 13/4" dia. (Less mast.) Stainless whip has bumper strap and chrome-plated hardware. For 110-125 v., 60 cycle AC and 12 v. DC. With 2 transmitting crystals (specify ch. 1-22), tubes, parts, easy instructions. Wt., 56 lbs.

22 HF 041-J. \$6 MonthlyONLY 113.95

MOBILE STATION PACKAGE. Add this mobile station to the system at left to have 2 separate mobile units contacting your base station. Includes: 1 Knight-Kit C-11 Transceiver Kit with Mike; 12-Volt Power Supply Kit with Cables; Under-Dash Mounting Bracket; 1 Transmitting Crystal; 102"Whip with Bumper Mounting Strap; 15 Feet of RG58/U Coax; Connectors. For 12 v. DC. With transmitting crystal (specify channels 1-22), all parts, and step-by-step instructions. Wt., 28 lbs.

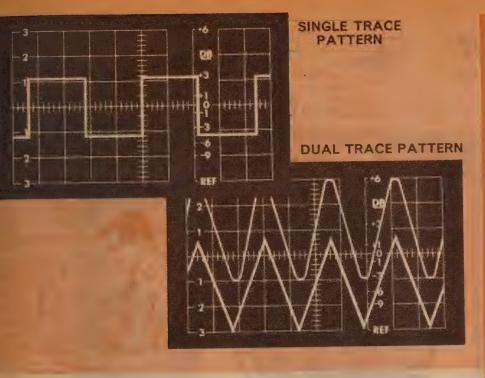
21 HF 065-J. \$5 Monthly.....ONLY 63.50

BASE STATION PACKAGE. Lets you add another base station to your present system, or to the base/mobile system at left. Package consists of: 1 Knight-Kit C-11 Transceiver Kit with Microphone; 1 Transmitting Crystal of your choice; all-directional Ground-Plane Antenna; 50 Feet of RG58/U Coax for transmission line; Connectors. For 110-125 v., 60 cycle AC. With transmitting crystal (specify channels 1-22), all parts, and step-by-step instructions. Wt., 28 lbs.

21 HF 064-J. \$5 Monthly.....ONLY 51.50



वैशेष्ट्रकारी क्षेत्रंक प्रश्निक है के का इक्ताक के का वसीवाल



the only research-quality scope in kit form . . . 10-mc DC Lab Oscilloscope Kit INTERCHANGEABLE VERTICAL PREAMPLIFIERS

Only

less preamps

Vertical Frequency Response from DC to 10 Mc

 DC-Coupled Triggered Sweep; Up to x20 Expansion DC-Coupled Amplifiers

Less Than 40 Nanoseconds Rise Time

Preamps for Dual Trace or Differential /High Gain

• 1% Sweep Timing Accuracy with Built-In Markers

Meeting or surpassing the most stringent requirements of industry and labora tory, this years-ahead 10-mc DC Lab Scope represents your finest value in a professional instrument. Accuracy, reliability and versatility, plus ingenious modular construction for rapid and efficient assembly, make this precision kit comparable to factory-assembled units selling for over double its price!

Trigger and amplifier circuits are DC coupled for uses where very low frequencies, or DC levels must be displayed. Push-pull amplifiers and electronic power supply regulation assure top stability. CRT deflection plate connections are brought out through the glass—eliminates socket capacity and reduces drive requirements—assures wide frequency response to 10 mc. Sweep timing accuracy is adjustable to 1% with built-in markers. Optional plug-in, interchangeable vertical preamps fulfill almost every scope requirement.

Time-mark and voltage calibrator outputs are available at the front panel for external use. A complete cooling system assures long component life and continuous duty operation. Printed circuitry and modular assembly provide building ease and quick access for calibration and maintenance. With all parts, detailed instructions and operator's handbook. Less preamps, below. 161/2x 121/2 x21 1/6". For 105-130 volts, 60 cycle AC. Shpg. wt., 60 lbs. 83 YZ 945-J. \$18 Monthly.....ONLY 395.00

SPECIFICATIONS

VERTICAL-Using Dual-Trace Preamplifier. BANDWIDTH, DC to 10 mc, within 3 db down. Reference to 50 kc, with vertical display height of 2 cm. RISE TIME, 40 naec, vertical display height of 2 cm or less. SENSITIVITY. 50 mv/cm to 20 v/cm. INPUT IMPEDANCE, 1 meg shunted by 40 mmf.

HORIZONTAL BANDWIDTH, DC to 2.5 mc within 3 db down. CALIBRATED SWEEP RANGE, 0.5 sec/cm to 50 nsec/cm in 30 ranges by use of basic sweep ranges (100 msec, 10 msec 1 msec; 100 microsec, 10 microsec, 1 microsec) and amplifier gain (X1, X5, and X20); also horizontal sweep 10:1 multiplier vernier control. Provision for external capacitor for very slow sweeps.

SENSITIVITY, Approx 0.1 v/cm and 1 v/cm. 10 to 1 attenuator. Gain control. TIME MARKS, Intensity modulated at 10 microsec, 100 microsec and 1000 microsec intervals—at front panel. Adjustable sweep timing accuracy to 1%. TRIGGERING, SENSITIVITY, 100 my external, 2 mm deflection internal. IN-PUTS, line, external AC or DC, and preset. LEVEL, adjustable for triggering at selected waveform points.

VOLTAGE CALIBRATOR, 1 kc square wave. 10 mv to 50 v., peak-to-peak = 1 %, in 12 steps. Output available at front panel. LOW-VOLT-AGE POWER SUPPLY, regulated -150, +100, +250, and +420 volts. HIGH-VOLT-AGE SUPPLY, regulated -1750 and +3500 volts. POWER CONSUMPTION, 400 watts with Dual-Trace Preamplifier. NUMBER of TUBES, 38 (excluding preamplifiers) plus WX5008/P2 post-accelerator CRT and 15 diodes. POWER REQUIREMENTS, 105-130 volts, 60 cycle AC.



MOBILE TRANSPORT CART

Steel frame. Swivel top locks in 2 positions. Ht., 36 ½ to 28 ½". Wt., 15 lbs. 83 YU 677-J. \$5 Monthly... ONLY 39.95

DIFFERENTIAL PREAMP KIT

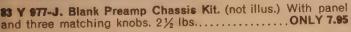
Cancels unwanted or interfering signals. 5000-1 rejection for common mode signals. Also serves as highgain preamp-responds to as low as 1 mv signal. DC to 100 kc response. Calibrated, 1 mv/cm to 50 v/cm, in 15 steps. (Variable). 5 lbs. 83 YZ 946-J. \$5 Monthly.....59.95



Provides independent or simultaneous presentation of wave form from each channel from DC to 10 mc in 9 steps. Dual step-type attenuators with vernier for P-P measurements. Rise time, 40 nanosec. Range, .05 v/cm to 20 v/cm. 5 lbs. 83 YZ 948-J. \$5 Monthly 79.95

DUAL-TRACE PREAMP KIT

83 Y 949-J. Low-Capacity Probe. (not illus.) Ready to use. Minimizes circuit loading. 2 lbs......ONLY 16.50



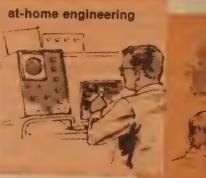




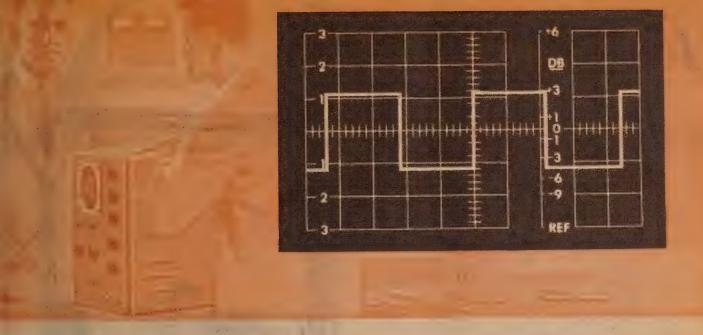
FOR USE IN ...











ANOTHER FIRST FROM KNIGHT-KIT! . . . PRESENTING THE NEW

Knight-Kit KG-2000 Professional DC to 5 Mc Scope

\$10 monthly

- Wide Vertical Frequency Response from DC to 5 Mc; 85 Nsec Rise Time
- DC-Coupled Amplifiers—Shunt-Series Peaking for Faithful Pulse Reproduction
- Triggered-Sweep—200 Nanoseconds/cm Down to .05 Seconds
- Has Stable Voltage-Regulated Power Supply; Freq.-Compensated Attenuators
- Illuminated Graticule; Vertical Position Indicators; Flat Face 5" CRT

Precision, reliability, and highest quality engineering are vital test equipment necessities in this space-age. In answer to this demand, Knight-Kit presents the scope that engineers, technicians and servicemen have been waiting for. Performance is of a caliber that meets virtually any requirement in lab or shop.

The wide frequency response of the vertical amplifier (DC to 5 mc) permits the display of pulses of fast rise time. Trigger and amplifier circuits are DC coupled throughout, for applications where very low frequencies or DC levels must be displayed. Vertical off-scale indicators are provided for maximum convenience in viewing traces. Horizontal displacement design is such that the pattern is never off scale to the left or right.

Preset lock-in of the signal eliminates the need to synchronize the sweep with input signals of various amplitudes or frequencies. Preset may be disabled; a separate control permits locking in on any portion of a signal, including a choice of positive or negative slope.

Other features include: choice of internal or external triggering; facilities for feeding the internal horizontal amplifier externally; adjustments for intensity, focus, astigmatism and positioning; DC coupled vertical and horizontal amplifiers; camera mounting studs for standard camera mounts; BNC type connectors; and voltage regulated power supplies for best stability.

Uses triggered/driven sweep; A signal as small as 1/2 cm on the CRT face will permit triggering. Speed is adjustable from 1 microsecond/cm to 50 milliseconds/cm. An external capacitor can be connected to external binding posts for slower sweep speeds. Includes X5 expand with switch control. Sweep timing accurary capability within 3%.

Controls grouped by function for fast use. Graticule illumination adjustable. Black knobs, white and red markings. With all parts, CRT, instructions. 141/x101/x151/2". For 105-125 v., 50-60 cycle AC. 30 lbs.

-SPECIFICATIONS-

VERTICAL BANDWIDTH ON DC: DC to 5 mc, 3 db down. Reference to 1 kc,

with vertical display height of 6 cm. (.05 v/cm to 20 v/cm).
VERTICAL BANDWIDTH ON AC: With AC Preamp in .005, .01 and .02 v/cm ranges, 5 cps to 1.5 mc, 3 db down. Reference to 1 kc, with vertical display height of 6 cm. On ranges from .05 to 20 v/cm, AC frequency response is height of 6 cm. On ranges from .05 to 20 v/cm, AC frequency response 5 cps to 5 mc, 3 db down.

RISE TIME: 85 nsec, vertical display height of 6 cm or less.

SENSITIVITY: DC coupled, .05 v P-P/cm. AC coupled, .006 v P-P/cm.

INPUT IMPEDANCE: 1 megohm shunted by 40 mmf,

CALIBRATION VOLTAGE: .1 v P-P, ±5% at front panel.

LOW-VOLTAGE POWER SUPPLY: Regulated, -150, +165, +365 volts.

HIGH-VOLTAGE SUPPLY: -1900 volts, regulated.

POWER REQUIREMENTS: 105-125 volts, 50 to 60 cycle AC.

POWER CONSUMPTION: 175 waits.

POWER CONSUMPTION: 175 watts.

NUMBER OF TUBES: 21, excluding CRT, plus 7 diodes. Cathode Ray Tube with flat face and P2 phosphor.

HORIZONTAL BANDWIDTH: DC to 200 kc within 3 db down.

SENSITIVITY: Approximately .15 v/cm. Has variable attenuator.

INPUT IMPEDANCE: 1 megohm

SWEEP RANGE: .05 sec/cm to 200 nsec/cm in 16 ranges by use of basic sweep ranges (10 millisec, 1 millisec, 100 microsec, 10 microsec, 1 microsec) and horizontal sweep plus X5 expansion. 10:1 multiplier vernier control;

and horizontal sweep plus X5 expansion. 10:1 multiplier venter control; Multiplier switch. Provision for adding external capacitor for very slow sweeps. Sweep timing accuracy capability within 3%.

TRIGGERING: Sensitivity, 200 mv external, ½ cm deflection internal. Inputs, line, external AC and DC, internal AC and DC. Level adjustable to provide triggering at selected points on waveform, or preset.

CRT DISPLAY AREA: 6x10 cm.

VERTICAL SCALE CALIBRATION: +6 to -9 db; x and y linear grid.

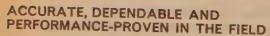
SIZE: Height, 14½"; Width, 10½"; Depth, 15½".

COLOR: Light grey case—dark gray panel with red and white markings.

SHIPPING WEIGHT: 30 pounds.



WITH TEST LEADS



Knight-Kits are the number one choice of the serviceman, technician and hobbyist . . . and all others who must get the most for their test equipment dollar.



Famous-For-Quality Electronic VTVM Kit

SPECIFICATIONS-

DC VOLTMETER

Ranges: 0-1.5-5-15-50-150-500-1500 full scale. With optional HV Probe reads to 50,000 volts.

Input Resistance: 11 megohms (1 meg in probe) to 1500 v scale. Accuracy: ±3% of full scale.

AC VOLTMETER

RMS Ranges: 0-1.5-5-15-50-150-500-1500 volts full scale.

Peak-to-Peak Ranges: 0-4.2-14-42-

140-420-1400-4200 volts.

Decibels: -10 to +65 (7 ranges). Response: 30 cps to 3 mc, ± 1 db; 30 cps to 5 mc, ±3 db. To 250 mc with optional HF Probe. Accuracy: ±5% of full scale.

OHMMETER

Ranges: 0-1000-10,000-100,000 ohms; 0-1-10-100-1000 megohms. Center Scales: 10, 100, 1000, 1000, 10,000, 100,000 ohms; 1, and 10 megohms.

Battery: 1 1/2 volt, size "C."

TUBE COMPLEMENT

Maier Bridge: 12AU7A Full-Wave Rectifier: 6AL5 B+ Supply: Selenium rectifier. Only

\$5 monthly

- 11-Megohm Input Resistance Minimizes Circuit Loading
- Precision 1% Multiplier Resistors for High Accuracy
- 200-Microamp Movement-Large 41/2", Two Color Scale
- Provision for Convenient External Calibration

Offering the big "plus"-up-to-the-minute design, the precision Knight-Kit VTVM stands unequalled in both performance and value. All the quality that years of experience and research in the field of kit development can provide has been incorporated in this superb unit. Components of the finest qualitycoupled with famous Knight-Kit easy, positive assembly-produce the kind of Vacuum Tube Voltmeter demanded by the quality-conscious technician, serviceman, and "do-it-yourself" enthusiast.

Highlights include: low-leakage type switches: finest grade printed circuitry; film-type 1% precision resistors and multipliers; easy-to-read, two-color 41/2" meter with 200-microamp sensitivity; zero-center scale plus direct reading type decibel scale; DC polarity reversing switch; push-pull balanced-bridge circuit for maximum accuracy and meter protection: and 11 megohm input impedance to reduce circuit loading-assures true readings.

Step-by-step instructions with giant-size picture diagrams are easy to follow. Gray metal case, charcoal gray panel, plus black vinyl carrying strap. With tubes, wire, solder, 3 test leads, battery, and all parts. Size, 75/x5/x41/4". For 110-125 volts, 60 cycle AC. Shpg. wt., 7 lbs.

83 Y 125-J. \$5 Monthly....

83 Y 126-J. High Voltage Probe Kit. To 50,000 VDC. 1½ lbs...... ONLY 4.50 83 Y 127-J. High Frequency Probe Kit. To 250 mc on AC. 1½ lbs.. ONLY 3.50

Up to 24 Months to Pay With Allied's Credit Fund Plan



Best Buys in Easy-To-Assemble, Accurate VOM Kits

1000 OHMS/VOLT VOM KIT

\$1595

new low price

• 41/2" Meter; 400-Microamp Movement

- 1% Precision Resistors and Multipliers
- 12-Position Range Switch; 38 Ranges
- Complete with Test Leads and Battery

20,000 OHMS/VOLT VOM KIT

\$29⁹⁵

\$5 monthly

• 4½" Meter; 50-Microamp Movement

One-Knob Range-Function Switch

Accurate Within 2% of Full Scale

1% Precision Resistors and Multipliers

Measure AC-DC volts, current and resistance with this outstanding value VOM that has 1000 ohms-per-volt sensitivity on both AC and DC. Reliable and versatile, it features a big 4½" meter with large, two-color, easy-to-read calibrations. All multipliers used are precision, 1% film-type resistors that provide high accuracy and continued dependability. Has 38 ranges to cover most general-type measurements.

Assembles and is ready for use in a matter of a few hours. Step-by-step instruction manual is clearly written and well-illustrated to guide your every move. A "How to Use" section helps you take advantage of all the capabilities of this performance-proven meter. Has black bakelite case with carrying strap. Includes battery, test leads, wire, solder, and all parts. 63/x51/x23/4". Wt., 3 lbs.

83 Y 128-J. \$5 Monthly......ONLY 15.95

83 Y 429-J. Above Kit, but with 5% tolerance resistors in place of 1% values. Shpg. wt., 3 lbs...,... ONLY 13.95

SPECIFICATIONS

AC, DC, and Output Volts: 0-1-5-10-50-100-500-5000 volts; 7 ranges each.

Resistance: 0-1000-100,000 ohms; 0-1 megohm (center scale at 60, 150 and 1500 ohms); 3 ranges.

Current: 0-1-10-100 ma; 0-1 amp AC or DC; 4 ranges ea.

Decibels: -20 to +69; 6 ranges.

Meter Sensitivity: 400 µa full scale.

Accuracy: 2% of full scale.

You get the most for your money—outstanding quality and performance—with this time-tested, carefully engineered VOM. An indispensable test instrument, you'll find that it soon pays for itself. Its 50-microamp meter sensitivity provides 20,000 ohms-per-volt input resistance on DC to assure accurate measurements in critical circuits. For AC voltage tests, input resistance is 5000 ohms-per-volt.

All multipliers are 1% precision resistors; meter, a part of the panel, has an easy-to-read 4½" scale, accurate to 2% of full scale reading; front panel zero adjust control; single switch for selection of function and range.

Building the Knight-Kit VOM is a pleasant and rewarding experience. Step-by-step instructions and comprehensive picture diagrams guide your every move. Black bakelite case, with carrying strap. 32 ranges. With test leads, batteries, wire and solder. 6¾x5¼x2¾″. 4 lbs.

83 Y 140-J. \$5 Monthly..... 35. 29. 35. 3. ONLY 29.95

SPECIFICATIONS

AC, DC, and Output Volts: 0-2.5-10-50-250-1000-5000 volts; 6 ranges each.

Resistance: 0-2000-200,000 ohms; 0-20 megohms (center scale at 12, 1200, 120,000 ohms); 3 ranges.

DC Current: 0-0.1-10-100 ma; 0-1-10 amps; 5 ranges.

Decibels: -30 to +63; 6 ranges.

Meter Sensitivity: 50 µa full scale.

Accuracy: 2% of full scale.



Only

High-Sensitivity 5" Wide-Band Scope Kit

the lowest priced oscilloscope kit with the all important extra features . . . your best value for color and black and white television servicing.

Wide sweep range, broad response and high sensitivity make this popular Knight-Kit a best buy for shop and lab alike. With highest quality components throughout its expertly designed circuitry, this top performer is simply great for color as well as black and white TV servicing, plus hundreds of other applications. Makes your service work easier and faster—increases profits.

Push-pull vertical and horizontal amplifiers with cathode-follower inputs assure minimum circuit loading and almost zero wave-form distortion. 2nd anode voltage of 1400 volts provides a high-intensity trace. Excellent synchronization on complex wave-forms is achieved by positive and negative locking. Includes frequency-compensated input attenuator, 1-volt P-P calibrator, internal astigmatism control, retrace blanking, Z-axis input, and directly coupled vertical and horizontal positioning controls.

Uses 2 printed circuit boards and a laced wiring harness for quick, reliable assembly. Handsome gray steel case, 141/4x101/6x151/2", has charcoal gray panel. With test leads, 5UP1 CRT, all parts, wire, solder, instructions. For 110-125 v., 60 cycle AC. Shpg. wt., 28 lbs.

83 YU 144-J. \$5 Monthly ...

83 YU 502-J. As above, but factory wired. \$6 Monthly......ONLY 109.95

.....ONLY **69.95**

SPECIFICATIONS

VERTICAL AMPLIFIER SENSITIVITY 25 mv (RMS) per inch. VERTICAL AMPLIFIER RESPONSE, ±3 db, 5 cps to 5 mc; only 1 db down at 3.58 mc color burst frequency, VERTICAL AMPLIFIER INPUT IMPEDANCE, with X1 sensitivity-2.9 megohms and 21 mmf; with X0.1 and X0.01 sensitivity-3.4 megohms and 12 mmf.

HORIZONTAL AMPLIFIER RESPONSE, down only 3 db at 600 kc; down only 4 db at 1 mc. Locks in as high as 9 mc. HORIZONTAL AMPLIFIER SENSI-TIVITY, 600 mv (RMS) per inch. SWEEP GENERA-TOR RANGE, 15 cps to 800 kc. SWEEP GENERA-TOR SYNCHRONIZATION, internal positive internal negative, external, and line frequency.

POWER SUPPLIES, low voltage supply has 6X4 rectifier with 6C4 voltage regulator. High voltage supply has 1V2 rectifier producing approximately 1400 voits to CRT for high-intensity trace. CALI-BRATOR, 1 volt Peak-to-Peak at front panel. CATHODE RAY TUBE, SUP1.

ACCESSORY PROBE KITS

83 Y 147-J. 12-Mmf Low-Capacity Probe Kit. Shpg. wt., 10 oz., ONLY 3.75

83 Y 148-J. 250-Mc RF Demodulator Probe Kit. Wt., 8 oz..... ONLY 3.75



VOLTAGE CALIBRATOR KIT. Makes your scope an accurate voltage measuring instrument. Provides variable square wave from .01 to 100 volts. Has switch for comparing external signal. 71/x53/x41//". For 110-125 v., 60 cycle AC. 43/4 lbs. 83 Y 136-J....

ALLIED

Your Satisfaction Is Guaranteed When You Buy Knight-Kits



Our Finest Emission-Type Tube Tester Kits

Only

\$5 monthly

Check Over 1900 Receiving, TV and Hi-Fi Tubes

Provision for Setting Up Future Tube Types Quickly

• Multi-Colored, Easy-to-Read "GOOD-?-REPLACE" Scale

Also Check for Shorts, Open Elements and Leakage

MODEL 600-A PORTABLE. Equip your shop or hobby corner with this dependable, low-cost Knight-Kit Tube Tester. With this handsomely styled unit on your test bench, you can check over 1900 tubes-including the very latest types! Sockets accept nuvistors, compactrons, novars, 4, 5, 6, and 7-pin large, 7, 9, 10-pin miniatures, octals, loktals, and pilot lamps.

Tube performance is accurately measured by the amount of cathode emission. The large, full-view meter clearly shows tube condition by a three-color, "GOOD-?-REPLACE" scale. A neon indicator shows filament circuit continuity and leakage or shorts between elements. Line-adjust circuit is provided to correct for variations in line voltage and maintain proper testing conditions. Filament switch lets you select 16 different voltages from 0.63 to 117 volts.

Illuminated roll chart features a smooth action thumbwheel drive. Supplied complete with all parts, wire, solder, and easy-to-follow instructions. In gray fabrikoid-covered portable wood case with handle. 61/2x141/2x101/2". For 110-125 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

87 YX 518-J. As above, but factory wired.....ONLY 53.95

MODEL 600-A BENCH OR COUNTER TUBE TESTER KIT

Includes the same outstanding features as the Knight-Kit 600-A Portable Tube Tester described above, except tester is housed in a sturdy gray steel case. Size, 51/4x141/6x101/6". Shpg. wt., 15 lbs.



TV PICTURE TUBE HAR-NESS. For checking picture tubes up to 90° on Model 600-A Tube Testers, 8 oz.

83 Y 141 ONLY 4.50

B 110° ADAPTERS. For TV tube harness above, checks

110° picture tubes. 2.0z. 83 Y 271. Set of 2. ONLY 3.04

REPLACEMENT ROLL CHART. For updating previous Knight-Kit 600 and 600-A Testers. 2 oz.

83 Y 117..... ONLY 1.50

CONVERSION KIT. Check nuvistors, novars, compactrons, 10-pins on older Model 600 Testers. Uses existing socket on checker. Shpg. wt., 2 lbs. 83 Y 633.....ONLY 3.95

ALLIED







Time Saving Resistor and Capacitor Testing Kits

RESISTOR-CAPACITOR TESTER KIT

Only :

- Proven Bridge-Method Measurement
- Tests Capacitors at Rated DC Voltage
- Measures Resistance to 5 Megohms

\$5 monthly . Indicates Power Factor Directly

The Knight-Kit R/C Tester Kit is an extremely versatile, highly accurate test unit. Specifically designed for topnotch performance in the service shop, lab, or on production lines, it will save you work and trim valuable time from hundreds of servicing and testing jobs.

Resistances and capacitances are measured with an accuracy of $\pm 10\%$ by the dependable AC-operated bridge method. Power Factor test provides a direct-reading indication of electrolytic capacitors' efficiency. Leakage checks, with appropriate voltages applied, show the true condition of the component-open, shorted, leaking.

Has a large, easy-to-read dial and "magic eye" null indicator, to show resistance and capacity values at a glance. Gray wrinkle case with charcoal gray panel. With tubes, pre-cut wire, solder and instructions. 71/4x

10 1/2 x 5 1/2". For 110-125 v., 60 cycle AC. 10 lbs. 83 Y 124-J. \$5 Monthly ONLY 19.95 83 Y 503-J. As above, but factory wired. **ONLY 29.95**

-SPECIFICATIONS

Resistance Ranges: RX1-100 to 50,000 ohms; RX100-10K to 5 megohms.

Capacity Ranges: C1-.00001 to .005 mfd; C2-.001 to .5 mfd; C3-.1 to 50 mfd; C4-20 to 1000 mfd.

Leakage Test Voltages: 50, 150, 250, 350, 450 volts DC. Power Supply: Transformer operated half-wave rectifier.

"IN-CIRCUIT" CAPACITOR CHECKER KIT

Only

- No Capacitor Unsoldering Required
- Wide Range-20 Mmf Thru 2000 Mfd
- "Magic-Eye" Shows Opens or Shorts
- Very Easy to Build and Operate

The Knight-Kit "In-Circuit" Capacitor Checker Kit actually permits testing capacitors while they are wired in the circuit. This valuable, time-saving feature is a real boon to servicemen, technicians, and hobbyists who maintain electronic equipment. There's no need to unsolder connections—just connect the test leads across the suspected component, press the proper switch, and the "magic eye" shows open or short condition (not leakage).

Checks by-pass, blocking, coupling and filter capacitors. The test for opens and shorts can be made on any capacitor of 20 mmf or greater capacity, even if the capacitor is in parallel with a resistance as low as 50 ohms. The test for shorts can be made on any capacitor up to 2000 mfd, even when shunted by as low as 50 ohms. You get accurate readings at a glance-important when testing the many capacitors in today's TV sets, radios, hi-fi, etc.

Has a sturdy steel case with attractive gray finish and contrasting charcoal gray panel; black vinyl handle for ease of portability. No special tools are required for assembly-a soldering iron, screwdriver and pliers are all you need. Clearly written step-by-step instructions plus wall-sized picture diagrams make assembly a marvel of simplicity. Complete with all parts, pre-cut wire, solder, test leads and builder's manual with easiest-to-follow stepby-step instructions. Size, 73/4x53/8x5". For operation from 110-125 v., 60 cycle AC. 6 lbs.



Lowest-Cost, Accurate Bench Equipment

FLYBACK AND YOKE CHECKER KIT

21⁹⁵

- Indispensable for TV Servicing
 - Large, Easy-to-Read 41/2" Meter
 - Self-Contained Power Supply

\$5 monthly

Positive Good or Bad Readings

First choice for the budget-minded TV technician and servicer! You'll race through TV deflection circuit repairs with this low-cost kit. Instantly checks on the condition of all types of horizontal output transformers and deflection yokes, as well as linearity and width coils in TV sets. Provides an accurate test of any standard component with shorted turns and continuity checks.

Positively indicates the presence of shorted turns for any coil with a Q greater than 1, and an inductance between .0003 henry and 2 henries. Determines the continuity of any circuit with a resistance between 0 and 0.5 megohms. A 4½" full-view meter with 400-microamp sensitivity provides clear and accurate readings. Circuit uses a 6S4A tube in a pulsed oscillator arrangement. Has a self-contained power supply of the isolation transformer type, for full safety during servicing of any type TV set.

This versatile, valuable addition to the test bench is also unusually easy to build. Assembly can be completed in a matter of hours using only the simplest of tools—you need just a screwdriver, long-nose pliers, and a soldering iron or gun. The well-illustrated manual, in addition to containing step-by-step instructions, also includes helpful hints on getting the most out of this fine instrument. Gray metal case has black vinyl handle; charcoal gray panel. With all parts, wire, solder. 73/x53/8x5". For 110-125 v., 60 cycle AC. 6 lbs.

83 Y 118-J. \$5 Monthly ONLY 21.95

TRANSISTOR AND DIODE CHECKER KIT

Only \$ 895

- · Checks Leakage-to-Gain Ratio
- 1-ma Dynamometer-Type Meter
- Use For Matching Transistors
- Checks Diodes and Rectifiers

Here's a handy tester that fills a real need for experimenters, hobbyists, radio and TV servicemen, students—anyone requiring a compact and reliable checker for testing transistors, diodes, and rectifiers. The Knight-Kit Transistor and Diode Checker measures the leakage-togain ratio of all types of junction, point contact and surface barrier transistors. In addition, matched pairs of transistors, whether they be of similar or dissimilar types, can be precisely selected by checking and comparing their leakage and gain currents.

Germanium and silicon diodes plus selenium and copper oxide rectifiers can be checked for excessive reverse current conduction, and for front-to-back conduction ratio. Another important feature is the provision that enables the user to listen to the noise generated by a transistor. This noise level test makes it possible to carefully select low noise transistors for use in high gain stages. Either a signal tracer or headphones can be used with tester for these noise level measurements.

Highlights include: spring-return leakage gain switch, adjustable forward current control, separate sockets for PNP and NPN transistors, sensitive, Dynamometer-type movement, self-contained 22½ volt battery. Housed in bakelite case with lustrous aluminum panel. Complete with all parts, test leads, battery and easy, step-by-step instructions. Size, 6½x3¾x2½. Shpg. wt., 2 lbs.

83 Y 149-J.

ONLY 8.95







WITH TEST LEADS

Pace-Setting Best Buys In RF And Sweep Generators

RF SIGNAL GENERATOR KIT

Only

• 160 kc to 112 mc On Fundamentals

Precision-Wound Coils Throughout

• Three Outputs: Modulated, Unmodulated, and 400 cps Audio

\$5 monthly

Can Be Used With External Modulation

Build this time and labor-saving trouble-shooter-get big savings over the cost of comparable factory-wired equipment. This extremely stable signal generator's wide fundamental output is divided into five separate bands. A large, clearly calibrated dial, vernier drive and easy-togrip knob permit exceptionally high accuracy in the setting of individual frequencies. Excellent for use as a marker generator. Has step and continuous-type attenuator controls for precise adjustment of output. Uses precisionwound coils in a Colpitts circuit—requires no calibration.

Output can be unmodulated (also jack for external modulation), or modulated by 400 cps built-in oscillator. 400 cps at 10 volts externally available. Gray case-charcoal gray panel. Includes all parts, wire, solder, instructions. 71/4x 101/8x51/4". For 110-125 v., 60 cycle AC. 11 lbs.

83 Y 145-J. \$5 Monthly......ONLY 19.95

83 Y 516-J. As above, but factory wired.....ONLY 29.95

-SPECIFICATIONS-

Frequency Ranges: Band A, 160-550 kc; Band B, 550-1850 kc; Band C, 1850 kc-7 mc; Band D, 7-27 mc; Band E, 27-112 mc, all fundamentals; harmonics to 224 mc.

Modulation: 400 cycles.

Audio Output: in excess of 10 volts. RF Output: in excess of 400,000 microvolts.

RF SWEEP GENERATOR KIT

Built-In Crystal Marker Oscillator

RF Output In Excess of 0.15 Volts

• Flat Output-300 kc to 250 mc

\$5 monthly

Variable Sweep Width—0 to 13 mc

An outstanding, low-cost instrument for TV and FM alignment. Produces a wide, linear, and stable sweep and continuous frequency coverage from 300 kc to 250 mc in 4 bands—all on fundamentals. Excellent for production line testing, electronic training and technical use. Highlights include: electronic retrace blanking; voltage regulation; automatic gain control circuit; electro-mechanical reactance modulator circuit; continuously variable sweep width; built-in crystal marker oscillator with dual crystal socket and switch for selecting either of two marker crystals (not included, listed below).

Complete with all parts, wire, solder and instructions. 85/2×121/2×7". For 110-125 v., 60 cycle AC. 15 lbs. 83 Y 052-J. 4.5 mc Marker Crystal. ± .005%, 3oz., NET 4.80

83 Y 050-J. 5 mc Marker Crystal. ±.02%. 3 oz... NET 3.95 83 Y 051-J. 10.7 mc Marker Crystal. ± .02%. 3 oz., NET 3.95

-SPECIFICATIONS-

Frequency Range: 300 kc-250 mc continuous, 4 bands. RF Sweep Output: In excess of 0.15 volts, regulated to assure constant output within 1 db on all bands. Sweep Frequency and Width: 60 cycles; 0-13 mc. Horizontal Sweep Voltage: 5 volts, RMS: 60 cycle.

Phase Control: Blanking shift 0-180 degrees.



Performance-Proven Equipment at Budget Prices

SINE WAVE AUDIO GENERATOR KIT

S monthly

- Full 10-Volt Output, ±1 db to 1 mc
- Covers 20 cps to 1 mc in 5 Ranges
- Two Cathode-Follower Output Stages for Extremely High Stability

Ideal for precise testing of high-fidelity amplifiers, tonecontrol circuits, speakers, etc.—speeds up and adds highest accuracy to any servicing requiring calibrated, continuously variable audio signals. Features an up-to-date circuit developed by the Bureau of Standards, to give extremely stable, uniform output on all ranges.

-SPECIFICATIONS-

Frequency Coverage: 20 cps to 1 mc in 5 ranges.

Output: Continuously variable and step attenuated, 0 to 10 volts rms into 600 ohms, flat within ±1 db.

Distortion: Less than .25% from 100 cps to 20 kc. Less than .3% over the entire tuning range. Less than .5% when driving 600 ohms load at 2 volts output.

HIGH-GAIN SIGNAL TRACER KIT

Only 5

- Tests RF, IF and Audio Circuits
- High Amplification—Gain of 91,000
- Jacks for External Scope and VTVM
- \$5 monthly

• Binding Posts for External Servicing

Build this highly versatile test instrument for your service bench or hobby corner. Permits fast, accurate servicing of radios, TV sets, hi-fi, amplifiers, etc.—lets you check RF, IF, video and audio circuits. Can be used as an audio amplifier for utility purposes, too.

"Magic eye" tube with calibrated attenuators clearly indicates signal presence and permits stage-by-stage gain measurements. Built-in 4" speaker permits audible signal tracing. Wattmeter is calibrated from 25 to 1000 watts for checking electrical devices. Use of a pentode front-end gives remarkably high amplification gain of 91,000—greater than any other unit in this price class!

Binding posts, from internal circuitry, allow easy substitution servicing. Speaker, output transformer, and 280-v. B-supply may be connected to unit being serviced. Other posts are for direct connection of oscilloscope or VTVM when multiple measurements are required. A 2-position RF-AF probe, supplied, affords complete testing versatility—one position for checking RF, IF and video stages, the other for testing audio frequency stages.

Knights-Kits Are Guaranteed to Meet With Your Satisfaction



Low-Cost Kits For Every Testing Requirement

A RESISTANCE SUBSTITUTION BOX KIT

Only \$595

 36 Different Resistor Values Available in 2 Switch-Selected Ranges

Rotary Switch for Rapid Settings

This handy resistance substitution box kit provides convenient switch-selection of any one of 36 E.I.A. standard 10% 1-watt resistor values, ranging from 15 ohms to 10 megohms. You can easily find the correct resistance value required in a circuit in seconds—saves valuable time in radio and TV servicing as well as in equipment design. 2 ranges: 15 to 10,000 ohms; 15,000 ohms to 10 megohms. Has 18 position rotary switch for rapid setting. With all parts, leads, alligator clips, instructions, black bakelite case. Size, 61/4x33/4x2". Shpg. wt., 13/1 lbs.

B CAPACITANCE SUBSTITUTION BOX KIT

\$595

- Eighteen Standard E.I.A. Capacitance Values
- Offers Quick Selection of Capacitors
- · Large, Easy-to-Read Selector Panel

HANDY 6-12 VDC BATTERY ELIMINATOR KIT

\$3895

- Current Capacity—15 Amps at 6 Volts,
 10 Amps at 12 Volts—Continuous
- Efficient Filter For Low-Ripple Output

\$5 monthly Variable Voltage-0-8 and 0-15 Volts

Whether you're a serviceman, experimenter or hobbyist, you'll find dozens of uses for this heavy-duty power supply. Serves as a ready, reliable source of 6 or 12-volt DC power for servicing auto radios, mobile Ham and communications equipment, hybrid and full transistor radios, vacuumtube portables, and other low-voltage equipment.

Great, too, as a deluxe power supply for model railroading. Also, its high current capacity permits charging 6 and 12 volt auto batteries overnight. Two panel meters continuously monitor output voltage and current. Meters are calibrated 0-15 VDC and 0-20 amps DC. Two ranges of variable DC output: 0-8, and 0-15 VDC.

Gray metal case, charcoal-gray panel. With all parts, wire, solder, and easy-to-follow, step-by-step instructions. 9x 12 1/8 x 7 1/8". For 105-125 v., 60 cycle AC. 20 lbs.

SPECIFICATIONS

Current Ratings: Continuous; 15 amps at 6 volts, 10 amps at 12 volts. Intermittent; 17.5 amps at 6 volts, 12.5 amps at 12 volts.

Power Consumption: 220 watts maximum. Protection: Line fuse and thermal cut-out.



MODEL 400A ECONOMY TUBE CHECKER KIT

Only

- Checks More Than 1600 Different Tube Types For Cathode Emission
- Isolation-Type Power Transformer

\$5 monthly • Unique Flip-Over Cards For Tube Chart

An easy-to-build tube checker offered at a price so low that no hobbyist, part-time radio-TV serviceman, or experimenter can afford to be without one. Not a "continuity" tester, the Knight-Kit 400A is a genuine emission tester of amazing versatility-permits accurate, comprehensive checking of all tube elements. Checks over 1600 commonly used radio, TV, and hi-fi tubes for cathode emission and shorted elements, as well as filament continuity.

Tests Compactrons, Nuvistors, Novars, 10-Pins, Octal, Loctal, 9-Pin and 7-Pin Miniatures. Incorporates a unique selector switch circuit that makes the tester obsolescenceproof for future releases of tubes. Safety-designed, it uses a true two-winding power transformer (not an autoformer) for full isolation from the power line. A handy slide-out drawer holds "flip-card" tube chart. Index tabs for fast location of tube types. A wide, two-color meter scale clearly shows good or bad tube condition.

Assembly is very easy—all parts are carefully identified either by mounting on cards, or by numbers on the individual component. Step-by-step instructions guide your every move-giant-size illustrations show you exactly where each part should go. Complete details on how the tester works and how to use it are included. Gray case has beige front panel. With all parts, wire, solder, charts. 3x9 % x8". For 110-125 v., 60 cycle AC. Wt., 7 lbs. 83 Y 625-J. \$5 Monthly.......ONLY 19.95

POPULAR 1000 OHM / VOLT POCKET VOM KIT

Only

- Now Available at a New Low Price
- Measures Voltage, Current & Resistance
- 21/2", 2-Color Meter Reads 13 Ranges

Hardly larger than a pack of cigarettes, this top-performing VOM kit gives you both sensitivity and ultra-compact size. It's perfect for hobbyists, experimenters, in-the-home servicemen, Hams—anyone who wants good quality at extremely low cost. 21/2" meter movement has an easy-toread 2-color scale.

DC Voltage Ranges: 0-5-15-50-150-500 volts. AC Voltage Ranges: 0-15-50-150-500 volts RMS. Resistance Range: 0-30,000 ohms, mid-scale reading is 1200 ohms. Current Ranges: 0-1-10-100 milliamps DC. Input resistance is 1000 ohms-per-volt on all DC ranges. Uses 5% tolerance multipliers and shunts. Has front-panel zero adjustment.

Assembly is quick and easy thanks to simplified point-topoint wiring to input jacks pre-installed in case. Detailed, well-illustrated manual guides your every move-explains how your tester works as well as its many uses. Complete with all leads, battery, wire, solder and case. Size, 2%x33/4 x11/2". Shpg. wt., 1 lb.

83 Y 708-J. ONLY 7.95

YOUR SATISFACTION IS GUARANTEED on every Knight-Kit. After you assemble your kit, it must meet with your satisfaction or your purchase price will be refunded.



Transistor 2-Station Wireless Intercom Kit

\$3995

- Completely Transistorized—Economical To Operate
- Absolutely No Wiring Required Between Stations
- All Stations Are Masters—All Can Originate Calls
- new low price Squelch Circuit Eliminates Power Line Interference

It's completely transistorized—it's wireless—it's the finest, most advanced intercom kit you can buy! Offering top flexibility, this deluxe 2-station system provides you with years of dependable, noise-free communication in your home, office, or shop; from your house to garage; or even between adjacent homes or buildings on the same electric-company powerline transformer. And it's completely portable—move stations from place to place as desired. Just plug into any wall outlet and you're ready to talk.

You get all the advantages of transistorized operation, too. Complete freedom from noise, hum and microphonics; virtually maintenance-free operation; compact size; extremely cool operation. Has amazingly low current drain—hardly more than an ordinary electric clock—requires no On-Off switch. A special noise-silencing squelch circuit provides quiet, static-free standby operation. A variable frequency system control lets you operate two wireless intercom sets simultaneously and independently. Also featured—a specially designed volume control that makes it impossible to inadvertently turn the volume below an audible level and miss a call.

Stations employ extra-large press-to-talk buttons with press-to-side "lock-on" design—lets your intercom "baby sit" while you are in the basement, out on the porch, etc. Beautiful molded-plastic cases are styled in Oxford Gray and Eggshell White. Each unit is 3x8½x5½". Includes transistors, all parts, wire, solder, and step-by-step, easy-to-follow instructions. For operation from 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 5 lbs.

83 Y 992-J. Additional Station Kit. Any number can be used for complete coverage and convenience, Shpg. wt., 3½ lbs. \$5 Monthly EACH, ONLY 20.95



saves you time...saves you steps... saves you money . . . use it in the home, office, plant and store.

ENJOY THE ENORMOUS ADVANTAGES of a fine Knight-Kit intercom system—you'll have the best time and step-saving communication available. And, you can use Allied's popular Credit Fund Plan for your purchase—no money down—up to 24 months to pay.

SATISFACTION IS GUAR-ANTEED on every Knight-Kit. After you assemble your kit, it must meet with your satisfaction or your purchase price will be refunded. Build the best—build Knight-Kits—a quality product of Allied Radio.



Low Cost 2-Station Wireless Intercom Kit

- Variable Frequency Control Allows Separate Systems
- Super-Efficient Squelch Circuit for Silent Standby
- No Cables to Connect—Just Plug into Any Wall Outlet
- new low price Attractively-Styled Cabinets Blend With Any Decor

Fun to Build . . . Easiest to Operate . . . Your Biggest Value By Far . . .

Build your own up-to-date, 2-station wireless intercom in just a few short hours—you'll be delighted with the dozens of time and money-saving uses. Sensitive receiver has plenty of reserve gain for reliable communications between distant stations. May even be operated between adjacent buildings or apartments, as long as both are served by the same power-company line transformer. Just plug stations into wall outlets to set up—no wiring is required. And you can use as many stations as needed—all can originate calls.

Convenient Talk-Listen switch lets you "press-to-talk" or lock station in "Talk" position for extended periods of transmission without holding the switch down manually. Ideal for "baby-sitting" from the nursery to the kitchen or other room. Noise-silencing circuit assures quiet "standby"—no annoying interference. A variable frequency control lets you operate separate systems at the same time—each system remaining independent of the other—extremely useful for selective office or plant intercommunication. Volume control and "on-off" switch are front-panel mounted for easy access.

The smartly-styled, cream-toned, molded plastic cabinets blend with any room decor. Dark brown knobs complement the styling. Modern, efficient vacuum tube design uses 4 tubes and a silicon-diode power supply rectifier. Supplied complete with all parts for building a 2-station system, tubes, wire, solder, and world-famous Knight-Kit step-by-step assembly instructions. Size of each unit is a compact 51/2x9x51/2". Add extra stations, below, as needed. For opera-

23 Y 941-J. Additional Station Kit. Extra stations may be added as desired to expand any system. Shpg. wt., 31/2 lbs..... EACH, ONLY 16.50





you'll quickly fall in love with the convenience and versatility of this all-star performer. The KG-3000 Transistorized Intercom Master Kit has a 6-station capacity; can be used with all Masters, all Remotes, or combinations; and car call any unit or units separately or collectively. Has push-pull output for maximum speech clarity; "Thermal Feedback" for optimum stability.

Using highly advanced transistorized circuitry, this flexible unit draws so little power from your line that no on-off switch is incorporated. Actual power consumption is about that of an ordinary electric clock-less than 4 wattsproviding economical and completely reliable operation. Simple to use, too Just select your station or stations, press the push-to-talk button at the master, and make your call. Sub stations can always hear your call, since their volume controls can never be completely turned off. Controls only set incoming signal;

used as a "baby sitter" or a telephone monitor utilizing lock-in feature. All stations have 45 ohm speakers for use of long lines—any 3 conductor #22 cable can be used between units. Tastefully styled in Oxford Gray and Eggshell White, with a low silhouette plastic case. Keyhole type slots are provided for wall mounting. Only Master plugs into power line—transformer operated for complete isolation. With complete instructions, wire, solder. Less interconnect-

83 Y 405-J. Remote Substation Kit. Use up to 5 with each Master. Has its own speaker, control, switch and cabinet. Same styling, color and size as Master station above. Less cable, below. Shpg. wt., 2 lbs..... EACH, ONLY 6.95

49 W 604-J. Interconnecting Cable. 3-conductor cable for Masters and Remotes. To determine amount required, measure distance from Master to each Remote and total. Shpg. wt., per 100 ft., 1 1/4 lbs......... NET PER FOOT 3c

Remote

Station



2-Station Economy Intercom System

Only

- Amazing Sensitivity—Responds To Even A Whisper
- Complete Station—Includes Both Master and Remote
- With Simplified Step-by-Step Instruction Manual; Can Easily Be Assembled by Anyone

A tremendous time and step-saver—at a bargain price! One of the most useful kits ever designed, it's perfect for electronic "baby-sitting." The remote unit can be installed in the nursery to permit continuous listening in-in the office or shop, communication can be private or non-private by simple use of the "Press-to-Talk" switch on the Master and "Talk-Listen" switch on the remote. Can be used with as many as three remotes parallel-wired.

Master has volume control to adjust loudness of system; only the Master station needs to be plugged into a power outlet. All Remotes can talk with each other when Master is turned on. Thanks to Master's extremely high-gain amplifier and the use of quality 4" PM speakers, it picks up even the slightest soundsactually responds to a whisper!

Attractive metal cabinets are styled in ivory with contrasting brown speaker grilles. With all parts, tubes, wire, solder, and easiest-to-build instructions. Each unit, 5x6%x41/2". For 110-125 v., AC or DC. 71/4 lbs.

83 Y 297-J. Complete 2-Way System. ONLY 14.95 83 Y 298-J. Extra Remote Station Kit. Less cable, below. 2½ lbs. ONLY 3.95

49 W 604-J. Extra Cable. Shpg. wt., 100 ft., 13/4 lbs....... NET PER FOOT 3c



Remote Has Listen-Talk Switch Which Can Be Set to Receive Messages or Be on Constant Transmit.

High Quality 4" Speakers Are Used on Both Master and Remote for Clear Sound and Ample Volume.





Only Master Has Volume Control to Set Entire System Level. No Adjust-ments Are Needed At Remote.



FOR HOME, STORE, OFFICE AND SHOP



In the Kitchen



In Work Areas



In the Office





"Ranger III" AM Clock-Radio Kit

Only \$2495



EVERYONE ENJOYS BUILDING THESE KNIGHT-KIT RADIOS

It's so easy—and so much fun to assemble a Knight-Kit radio. No expensive special tools are required—just a pair of long-nose pliers, a screwdriver and a soldering iron are all you ever need. Clearly written, step-by-step instructions are easy to follow—and each manual is loaded with large, clear diagrams and pictorials, too. Even if you've never built anything before—you can build a perfect Knight Kit radio. Satisfaction Guaranteed!

- Features Telechron Clock with Luminous Hands
- Automatically Turns Off After You've Fallen Asleep
- Turns on Any Household Appliance at Desired Time
- Printed Circuitry, Plug-In Modules for Easy Assembly

A real favorite—as a receiver, provides crystal-clear reception of the AM broadcast band—as a clock-radio, offers an array of useful conveniences. It pleasantly awakens you to the sound of music in the morning—should you oversleep, it sounds an alarm ten minutes late in the evening, lets you fall asleep to music—"Sleep Switch" shur offication after any desired time lapse up to one hour. 1200-watt outle on rear of set automatically starts your coffee-maker, turns on lamor other appliance. Also may be used as a security precaution, to turn on lights at nightfall when you're away from home.

Building the Ranger Clock-Radio is so easy and so much fun-expounced are long-nose pliers, screwdriver and soldering iron. Two unique module units (preassembled resistor and capacitor assemblies) plug into a printed circuit board and are soldered into place With handsomely styled ebony and white cabinet. Tubes: 12BE12BA6, 12AV6, 50C5; and 35W4 rectifier. Size, 5½x9½x5½. Complet with all wire and solder, instructions, wall-size diagrams, Telechro clock. For 110-125 volts, 60 cycle AC. Shpg. wt., 6 lbs.

83 Y 737-J. \$5 Monthly ONLY 24.9

Telechron Clock "Sleep Switch" Starts Coffee



"Ranger III" AM Superhet Radio Kit

You'll enjoy the outstanding reception of standard AM broadcasts, you'll appreciate the handsome styling that fits in anywhere, and you'll marvel at the easy, fun-filled assembly. Includes such important features as Alnico V speaker and acoustically designed cabinet for clear, full tone; automatic volume control that cuts blasting and fading; and sensitive superhet circuit for top-notch performance. Miniature tubes include: 12BE6, 12BA6, 12AV6, 50C5; 35W4 rectifier. Highly efficient, built-in hi-Q loop antenna provides maximum sensitivity. Complete with all parts, black cabinet accented in white, wire and solder and easy-to-follow instructions. 5%x8%x4%". For 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 41/2 lbs.

Only \$ 695

- Has Sensitive Superhet Circuit
- With Smartly Styled Cabinet
- Very Easy to Assemble
- Efficient, Full-Toned PM Speaker
- Built-In Hi-Q Loop Antenna
- Cadmium-Plated Steel Chassis
- AVC Prevents Blasting and Fading

ALL-TRANSISTOR AM RADIO KIT

A portable 5-transistor radio with precision engineered circuitry and a big 31/2" speaker for superior sound. Ebony-trimmed ivory case has two satin-gold metal endplates. Includes off-on/ volume and tuning controls. Has built-in loopstick antenna. Complete with wire, solder and easy-to-follow instructions. Less battery and

earphone, below. 3¾x8x2". 2¼ lbs.

83 Y 922-J. \$5 Monthly.

ONLY 19.95

83 Y 002-J. Std. 9-v. Btry. 4 oz.

NET .21

83 Y 003-J. Earphone. For private listening. With cord and plug. Wt., 5 oz. NET 1.67



new low price

- Push-Pull Output and 3½" Speaker
 Easy-Assembly Printed Circuitry
- Phone Jack for Private Listening



Log the Wide World from Your Armchair With Knight-Kits



ILLUMINATED "S" METER

Accurately indicates maximum signal strength of a station plus correct tuning for peak performance.



SLIDE RULE DIAL

This large dial is clearly marked for quick station selection. 71/2" long and illuminated for easy logging.



SENSITIVITY CONTROL

Adjusts for optimum reception when listening to voice or code.

NEW! "STAR ROAMER" 5-BAND RECEIVER KIT

Only

\$5 monthly

- * 5-Bandswitched Ranges-200 kc Through 30 mc
- "S" Meter Measures Signal Strength, Tuning
- Sensitive Superhet With Regenerative IF Stage
- Calibrated Bandspread for Sharp Tuning
- Has Automatic Volume Control, Noise Limiter

Tune in the world! Hear history-making events as they happen and where they happen—on the fantastic new "Star Roamer" 5-Band Shortwave Receiver Kit. Low-priced for the tops in economy, and easy to build, this flexible and sensitive receiver covers 200 kc to 30 mc (except 400-500 kc) in 5-ranges. At fingertip command, you have the marine and aeronautical bands, with calls from ships at sea, planes aloft, beacons, up-to-the-minute aviation weathercasts, and marine distress calls. Your favorite AM radio programs are on the standard broadcast band, and you'll hear the many voices of the world on the international shortwave bands, plus Hams, press stations and much, much more...

Has illuminated "S" meter that accurately indicates maximum signal strength plus correct tuning of a station. Calibrated electrical bandspread control acts as a fine tuning device that separates the station you want from the many signals present-important in the clusters of shortwave transmissions. Other features: AVC to reduce "fading" and "blasting"; ANL for noise reduction; IF Sensitivity control for improving signal-to-noise ratio, preventing overloading, increasing selectivity, and for optimum code reception; Antenna Trim for maximum signal; and headphone jack. And as an added feature, the "Star Roamer" can also be used as a code practice oscillator.

It's great fun to build, too. Detailed instructions and identified parts mean easy assembly and swell results. Includes all parts, large 4" speaker, tubes, wire, solder. Charcoal gray, aluminum trim; black dial. 51/2x121/4x8". Less antenna, below. For 110-125 v., 60 cycle AC. Wt., 8 lbs.

83 YX 102-J. \$5 Monthly.....ONLY 39.95

83 Y 025-J. Outdoor Antenna Kit. With accessories. Wt., 11/2 lbs... ONLY 1.03 83 Y 027-J. Dual Headset. 2000-ohm impedance. Wt., 12 oz..... ONLY 2.08



Your Personal Passport to Exciting Shortwave Listening

SPAN MASTER® 4-BAND SHORTWAVE RECEIVER KIT

Only \$5 monthly

- Bandspread Control Makes Tuning Fun and Easy
- Regenerative Circuit for World-Wide Reception
- Transformer-Powered for Maximum Performance
- Built-In Speaker Plus Headphone Terminals
- Modern Up-to-the Minute Styling—Wood Cabinet

Travel the world from your armchair—hear history in the making! The famous Knight-Kit Span Master is actually your passport to the fascinating space-age hobby of shortwave listening. Featuring a super-sensitive regenerative circuit, it provides 4 band coverage of international shortwave plus favorite standard AM broadcasts. You'll tune in on fascinating foreign broadcasts, listen in on ships at sea and aircraft, hear interesting messages on the Citizens Band, and and receive exciting Amateur stations on the 160, 80, 40, 20, 15 and 10 meter bands-it's a thrilling new world of listening adventure!

Highlights include: continuous tuning from 540 kc through 30 mc; bandspread tuning and fine regeneration controls simplify tuning and separate crowded stations; headphone terminals and speaker cut-out switch permit private headphone reception if desired; coils for each tuning range have their own antenna windings to assure maximum sensitivity; AC transformer power supply for peak efficiency vacuum tube performance; handy bandswitch for the 4 tuning ranges; attractively-styled wood cabinet included; built-in speaker; and 6 operating controls: calibrated Main Tuning, Bandspread Tuning, Bandswitch, Volume with On-Off Switch, Coarse and Fine Regeneration.

A listing of foreign broadcasting stations included with this kit is a valuable aid in tuning in transmissions from all over the world. Manual includes sections on International Morse Code to help you learn code transmissions. With cabinet, tubes, wire, solder, instructions. Less antenna, below. Size, 61/4x14x63/4". For 110-125 v., 60 cycle AC. Shpg. wt., 8 lbs.

83 YX 258-J. \$5 Monthly.....ONLY 25.95

83 Y 025-J. Outdoor Antenna Kit. With accessories. Wt., 11/2 lbs....ONLY 1.03 83 Y 027-J. Dual Headset. With pins for jacks. Wt., 12 oz......ONLY 2.08





Enjoy Reliable "Round-The-World" Listening Fun

SPACE-SPANNER® SHORTWAVE/BROADCAST RECEIVER KIT

\$1895

with case

- Covers 540-1700 kc and 6.5-17 mc Bands
- Front Panel Control For Quick Bandswitching
- Has Its Own Built-In Clear-Toned 4" Speaker
- Electrical Bandspread For Easy, Accurate Tuning

Hear thrilling shortwave broadcasts from overseas on a receiver you build yourself! Amazingly low in cost, the 2-band Space Spanner pushes back the horizon as it reaches out for exciting messages from the farthest corners of the earth. You'll hear foreign broadcasts, messages from ships and planes, Amateur radio operators talking and sending code on the 40 and 20-meter bands—plus all your favorite radio programs on the standard broadcast band.

Selector switch permits easy switching between the 6.5-17 mc shortwave range and 540-1700 kc standard broadcast range. Electrical bandspread control provides easy, accurate tuning and effectively aids separation of crowded stations. Beam-power amplifier and built-in 4" speaker give clear, full-toned reception. Headphone connectors and speaker cut-out switch on rear panel allow private listening. Six controls: Main Tuning, Bandspread, Antenna Trimmer, Bandswitch, Regeneration and Volume.

Building the Space Spanner is an ideal way to learn about the fundamentals of radio—as well as an economical way to own a fine receiver. With all parts, case, wire, solder, and easy, step-by-step instructions. Size, 7 11x5 1/8". For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 7 lbs.

Y 209-J. ONLY 18.95

ACCESSORIES



B DUAL HEADSET. 2000 ohm. Has dual tip pins for headphone jacks on all Knight-Kits on these pages. 12 oz.

83 Y 027-J.....NET 2.08

SINGLE HEADPHONE. (Not illus.) 1000 ohm. With pins for jacks. Shpg. wt., 8 oz.

83 Y 028-J.....NET 1.08

THIS CHART SHOWS YOU THE RADIO SERVICES

AARINE AERONAUTICAL CONSOLAN SISTRESS AOBILE GOVERNMENT AM BROADCAST	ONELRAD ONELRAD ONELRAD M BROADCAST M BROADCAST A BROADCAST	0-METER AL ORAN WV TIME S FRONAUTIC ARINE	ARINE ITERNATIONAL BROADCAST WY TIME SIGNALS ERONAUTICAL	TERNATIONAL BROADCAST FRONAUTICAL ARINE
24 00 2 4 160kc 500kc 510kc 535kc	0 4 0 4 4 2 2 640kc 1240kc 1605kc	1888ke 2.5mc 3.5mc 4	mc 5mc s.ec	MA



Open Up New Frontiers In Shortwave Listening

"OCEAN HOPPER" 6-BAND RECEIVER KIT

- Plug-In Coils For 165 kc to 35 mc
 - Receives Longwave and AM Broadcast
- Covers 4 Shortwave Bands Too
- Easy-to-Build-Simple to Operate

One of the most popular kits ever offered, this amazing set covers AM broadcast plus both shortwave and longwavel Efficient regenerative circuit, with handy plug-in coils, tunes from 165 kc (longwave) all the way to 35 mcfor local programs, foreign broadcasts, Hams, planes, beacons, the 500 kc distress frequency and other services. See frequency listing chart, below. On strong stations, receiver will operate a 3-4 ohm PM speaker (not supplied). With cabinet, broadcast band coil, wire, solder, and the easiest-to-follow instructions. Less extra coils (below), and headphones and antenna (facing page). 63/4x101/2x51/2". For 110-125 v., 50-60 cycle AC or DC. 7 lbs.

PLUG-IN COILS FOR "OCEAN HOPPER"

Set of 5 plug-in coils with complete over-lapping coverage from 165 kc through 35 mc. Less broadcast coil included with "Ocean Hopper", above. Wt., 11/2 lbs.

83 Y 748-J. ONLY 2.95

ALL TRANSISTOR "DX'ER" RECEIVER KIT

- All-Transistor Regenerative Circuit
- Battery Powered-Works Anywhere
- Covers 540-1500 kc/6-17 mc

new low price . Hear Shortwave and Broadcast Bands

Hours and hours of listening adventures are packed into this top-performer! Powered by economical penlight batteries, it's the first low-cost transistorized kit to offer standard broadcast plus shortwave reception. The 3-transistor circuit tunes 540-1500 kc and 6-17 mc for AM stations, ships, aircraft, shortwave, 20-meter Hams.

Regeneration control lets you "peak" receiver for best signal on voice or code. Handy, front panel control for quickly switching from AM to shortwave. Antenna trimmer permits "tuning up" for maximum signal strength. Sliderule dial with ranges clearly calibrated in large black numerals against a smart, flat-finish aluminum background. Large, easy-to-grip knob for easy tuning. Also includes Off-On switch and headphone jacks. With 25-ft. indoor antenna, gray metal cabinet, wire, solder, and instructions. Less outdoor antenna and headphones, facing page, and batteries, below. 5x9x53/4". 6 lbs.

..... ONLY 14.95 83 Y 943-J. ONLY 14.95 83 Y 026-J. Penlight Cells. Takes 4. Wt., 3 oz. EACH 10c

YOU CAN HEAR AND WHERE TO FIND THEM

-METER AMATEUR TERNATIONAL BROADCAST	ARINE	ITERNATIONAL BROADCAST	ERONAUTICAL ITERNATIONAL BROADCAST ARINE	-METER AMATEUR	ERONAUTICAL	WV TIME SIGNALS ERONAUTICAL ATERNATIONAL BROADCAST	5-METER AMATEUR	NTERNATIONAL BROADCAST AARINE AERONAUTICAL SOVERNMENT NDUSTRIAL	CITIZENS BAND	GOVERNMENT	O-METER AMATE	AERONAUTICAL	PUBLIC SERVICE	6-METER AMATEUR
\$Z	Z	Z	4 ≥ 3	2 14 3	4	345 2	lime 2	Z ≥ < 0 ≤			28me 21	9.7mc 36		





Audio Amplifier, too!



Radio Broadcaster/Audio Amplifier Kit

Plays Through Any AM Radio

Use It With a Phonograph or Microphone

Excellent As A Wireless "Baby Sitter"
 Requires No License or Permit

ALL SORTS OF EXCITING USES

Sing, speak or play records through radio. Unit becomes amplifier when attached between player and speaker.

Simply jam-packed with fun for the entire family, this popular Knight-Kit actually lets you broadcast through any AM radio! Just plug in a microphone or record player and you're "on the air." Surprise visiting friends by tuning in radio shows on which you are the announcer, disc jockey, news commentator or musical entertainer. Enjoy records anywhere in the house by tuning them in on the nearest radio, without direct connections to the sets! May be easily attached between a record player and any external PM speaker to become a phono amplifier. Also handy as a P.A. system or an electronic "baby-sitter" lets you listen for sounds from the nursery.

Can also be used with any standard AM radio as a remote sound monitor for TV sets or Citizens Band units. Just like a regular broadcasting station, this easy-to-build Broadcaster tunes to any frequency from 600 to 1500 kc.to 'select' any spot on radio dial. Can be used with magnetic, crystal or ceramic phono cartridges, and with high output microphones (magnetic cartridge equalization disconnects to permit use with microphones). With instructions, all parts, wire and solder. Less mike, below. 41/2x5x6". For 110-125 v., 50-60 cycle AC or DC. 23/4 lbs.

83 Y 706-J. ONLY 12.95 57 S 166-J. Crystal Microphone. 1 lb. NET 2.59

NEW Transistorized Code Practice Package—Great for Beginners



Complete

HERE'S WHAT YOU GET: 30

Transistorized CP Oscillator Kit Two 1000-Ohm Headphones Two Smooth-Acting, Adjustable Keys Hookup Wire and Easy Instructions

Scouts, builders, students, Amateurs-to-bel Learn to send and receive code in a jiffy with this low-cost "twoman" package—two can practice code almost as cheaply as one! It's just the thing for self-practice, teaching or monitoring too. Everything you need is included in the set: Knight-Kit Transistorized Code Practice Oscillator Kit; two smooth-action keys with adjustable arms; two dependable single headphones with headbands; all required hookup wire and simple, detailed instructions. Kit can be assembled in very little time-operates for months on a single penlight cell. Oscillator has durable, black bakelite case with aluminum panel. Size, 33/x23/x11/2". Complete with all parts, wire, solder, battery and famous Knight-Kit instructions. Wt., 5 lbs.

83 YX 436-J. 83 Y 239-J. Code Oscillator Only.....ONLY 4.95

BUILD YOUR OWN WALKIE-TALKIE! MEW Walkie-Talkie Transceiver



NEVER BEFORE AT THIS LOW PRICE!









101 USES--**OUTDOORS** AND INDOORS

MODEL C-100 WALKIE-TALKIE KIT

- Talk to Neighbors, Family and Friends Up to ½ Mile Away
- Weighs 9 oz.—Operates Up to 75 Hours on 1 Battery
- No License, Exam, Permit, Age Limit—Anyone Can Use It

Here's a great new Knight-Kit everyone's been waiting for! In a few fun-packed hours you'll have this 3-transistor beauty assembled and ready for reliable, on-the-move communications. It's great for camping, hiking, fishing, hunting, boating, picnic outings, etc. You'll talk with buddies, family and friends up to ½-mile away. And Mom and Dad will find many applications for a pair of these 2-way radios around the home, too. Fully modulated for maximum talk power and range, unit is "on the air" the instant you press the push-to-talk button-built-in 2" speaker also serves as mike. Release button to listen over your super-regenerative receiver. Fits snugly in your hand—only 511/32x2 1/8x1 3/4". Operates up to 75 hours on low-cost cell. With crystal for channel 7, 40" telescoping whip, high-impact blue case, parts, wire, solder, easiest-of-all instructions. Less carrying case and battery, below. Wt., 9 oz. Buy two for a matched 2-way system!

83 Y 804-J. EACH, ONLY 9.95

83 Y 013-J. Leatherette Carrying Case. 6 oz......ONLY 98c 83 Y 002-J. 9-Volt Battery. For above. Wt., 4 oz......ONLY 21c



SO EASY TO BUILD!



Youngsters, get started in electronics with a Knight-Kit! You'll learn as you build and have lots of fun. And remember—Knight-Kits are famous for their easy-tofollow step-by-step instructions.



Fascinating, Fun-Filled 100-in-1 Electronic Lab Kit

Opens the Door to the Thrilling Electronic World of Today and Tomorrow

Only

\$5 monthly

PACKED WITH FEATURES!

- Over 100 thrilling experiments
- · Solderless-just use a screwdriver
- Learn-as-you-build instructions
- Transistor and tube-type projects
- Absolutely safe—25 volts or less
- Unique spring connectors hold leads
- Go from simple to advanced circuits
- Includes everything you'll need
- Professional-looking control panel
- Fun and fascination for everyone

Perform 100 electronic experiments—put the space-age wonder of transistors to work for you—discover how vacuum tubes operate—all this with more fun, more thrills, more enjoyment than you ever dreamed possible. You'll apply every type of modern electronic component in creating different and exciting projects that entertain as well as instruct. There's nothing like the 100-in-1 anywhere-at

Just imagine converting sunlight into electricity that will power a radio, or making an audio amplifier for your record player. You'll even put together testing circuits that really come in handy around the house. Talk from room to room-and even to neighbors-on an intercom you build yourself! Practice sending and receiving Morse Code—all in all, you'll build over 100 separate experiments.

No soldering is required—you need only a screwdriver to set up any of the circuits. Unique spring-type connectors make it so easy to set up or change any of the various projects. The connector is pulled back-lead is inserted-then connector springs into place. Once the main parts are mounted on the master control panel, simply reposition a few leads and parts to quickly change projects.

A special safety-design transformer reduces all voltages to 25 volts or less for absolute electrical safety. Everything you need is included -nothing else to buy. You get a solar-type photocell, speaker, headphones, meter, relay, antenna wire, all parts and a clearly illustrated step-by-step instruction manual. You also receive detailed explanation of how each circuit works. Size, 8x141/2x8". For 110-125 v., 60 cycle AC. Shpg. wt., 6 lbs. 83 YX 997-J. \$5 Monthly.....ONLY 29.95



BUILD OVER 100 THRILL-ING SPACE-AGE PROJECTS!



12 Different AM Radio Receivers -One Even Operates from Sun-



Radio Broadcaster—Be Your Own Announcer or Disc-Jockey.



Code Practice Oscillator helps You Learn to Send Morse Code.

Metronome-Study Rhythm by Visual as well as Aural Measurements,





Light Meter-Reads Changes in Light Intensity on a Real Photo-cell,

PLUS over 80 more-including:

Resistor and Capacitor Checker

• Air-Powered Earphone Amplifier • "S" Meter • Lie Detector • Audio Amplifier • Code Transmitter • Telephone-Type Intercom Electronic Timer • Conelrad Monitor • Sound-Powered Telephone • Microphone Preamplifier • Photoelectric Relay
• Electronic Scale • Fire Alarm • Burglar Alarm • Voice Operated Relay • Electronic Switch • CW Monitor • Applause Meter • Flasher · Light Beam Receiver · Magic Music Oscillator • Polarity Checker • Ohm-Meter • DC Voltmeter • AC Voltmeter • Electrolysis Detector Vacuum Tube Voltmeter • Signal Generator • Electronic Cat • Code Buzzer • Signal Injector • Boat Horn • Many others!



Electronic Ther-mometer—Measures Changes in Temperature

Battery Charger-Revitalizes Weak Flashlight Cells



EVERYTHING YOU NEED IS INCLUDED!



Solar Photocell



Loudspeaker



Panel Meter



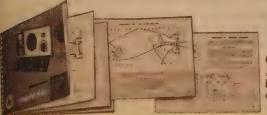
Transistors and Tube



Duai Headset



Antenna Wire



156-PAGE GUIDE MANUAL All circuits shown in detail and thoroughly explained



21-in-1 Transistor Laboratory Kit



Electronic Solar-Powered Oscillator





Audio Amplifier

Code Oscillator

PLUS 16 MORE!

1 Transistor Radio • 2-Stage AM Radio • Solar-Powered Radio • CW Transmitter Magic Music Maker • Burglar Alarm • Signal Injector • Electronic Cat • Electronic Switch • Telephone • Light-Operated Relay • Electronic Flasher • Wireless Broad-caster • Voice-Operated Relay . Body-Capacity Alarm . **Electronic Timer**

 Plug-In, Pin-Type Leads Allow Changing Projects Quickly Components Mount on Quality Printed Circuit Board

21 Project Guide Cards—No Duplication of Wiring

new low price • Includes Clearly Written Manual and Explanation

Attention all experimenters and hobbyists! The new, amazing 21-in-1 Transistor Lab lets you operate your own radio station-broadcast through any nearby AM radio. Surprise your friends by turning electrical equipment off and on with your voice, or with a beam of light. Hear local radio stations loud and clear on any of the AM receivers-there's even one that runs from sunlight! Practice sending Morse Code with either of the 2 code oscillators-one broadcasts through your own AM radio. Catch the "burglar" with either of 2 body-capacity type alarms. Make an automatic light flasher or an accurate electronic timer. Use your headphones as either a speaker or microphone with the audic amplifier. Weigh yourself or friends with the electronic scale. Imitate musical instruments and even cats with the magic music maker and electronic cat. All in all, you easily perform 21 separate, interesting, fun-filled projects and you learn, too.

Simple assembly-just put easily identifiable components into marked PC board and solder. Special guide cards show each circuit layout and plug-in leads interconnect numbered components to form each experiment. Go quickly from one enjoyable project to another just by changing the guide card and by rearranging the plug-in leads. You get positive, error-free results!

Detailed manual includes a clearly written explanation on what each circuit does and what makes it work. Supplied complete with transistors, headset, wires, solder. Battery powered; less battery, below. Wt., 2 lbs.ONLY 14.95

83 Y 213-J. Battery for Above. Shpg. wt., 2 oz......ONLY 69c



12-in-1 Electronic Laboratory Kit



Only \$1595

- Permanent Parts Mounting—Change Circuits Quickly
- Absolutely Safe—No Voltage in Circuitry Exceeds 25 Volts
- No Circuit Duplication—Actually 12 Separate Projects
- Circuits Demonstrate Important Electronic Principles

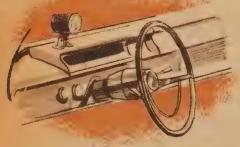
Think of all the fun you'll have making electronic "magic" with this fascinating and educational Electronic Lab Kit! You'll learn the basic fundamentals of electronics the enjoyable way—while performing practical and interesting projects. Surprise everyone by broadcasting your voice through any AM radio in the house. Control electrical devices by stepping on a metal plate, by speaking into a microphone, or by flashing a light on a photocell. Make music by moving your hands in a beam of light. Listen to your favorite programs on your own AM receiver. Build a code oscillator, code transmitter, electronic switch, timer, flasher and audio amplifier, too.

Easy to assemble and operate—anyone can build it quickly and without error. Once you solder the basic parts into place, there's no need to change their position as you go from circuit to circuit—simply relocate a few wires according to the clear instructions given in the manual. Each project demonstrates important electronic principles—it's the most fun-filled way to explore the magic world of space-age electronics! And the 12-in-1 kit is perfectly safe. Power transformer is of the isolation-type and no voltage in the circuitry exceeds 25 volts for absolute electrical safety.

Informative manual also includes sections on symbols, Morse Code, and color-code markings. Includes 8x11" mounting board, 12K5 tube, photocell, mike, wire, solder, instructions. Less headphone, listed below. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 4 lbs.



Precision Transistorized Electronic Tachometer Kit



Can Be Dash-Board Mounted— Housing Can Be Tilted to Any Desired Angle



Also Mounts On Steering Column to Any Desired Angle—Head is Rotatable

⁵21⁹⁵

new low price

- Linear Meter Registers Engine Speed from 0-8000 rpm
- Provides Exceptional 3% Full Scale Accuracy
- Precision D'Arsonval Movement for Top Reliability
- Zener Diode Regulation for High Stability
- 20,000 Ohm Hi-Z Input-No High Voltage Loss

Rugged, reliable and loaded with special features for better, all-around motoring efficiency, this precision tachometer is comparable to assembled units costing many times its low price. Accurately registers engine speed in rpm—electronically. Helps you set engine for top fuel economy—or to develop maximum horsepower. This exciting unit makes a marvelous accessory for compact, standard and sports cars, boats with outboard engines, motorcycles, etc. A perfect gift for auto or boat enthusiasts!

Transistorized switching and zener diode regulation provide exceptional 3%-of-full-scale accuracy—regardless of temperature or voltage changes! Operates with 1-8 cylinder, 2 cycle or 1-16 cylinder, 4 cycle engines using ignition coil and distributor—9-32 VDC. Also operates with magneto and 6 VDC systems when used with accessory 9-v battery (not supplied, see below). A handy, red, adjustable reference pointer may be preset to any desired speed—lets you know at a glance when to shift gears or when maximum torque is achieved.

Illuminated meter is easily calibrated from 60 cycle house current. Available in positive-ground and negative-ground models. (Virtually all late-model U.S. cars have negative-ground ignition systems.) Has highly durable, extruded housing for high resistance to shock and vibration. Remarkably easy-to-build, assembly is simply a pleasant evening's work—requires only a screwdriver, long-nose pliers and a soldering iron. Supplied complete with all parts, cables, mounting base, strap and detailed instructions for building and using. Black housing with gleaming chrome trim. 4 1/8 x 3 1/4 x 3 1/8". Shpg. wt., 4 lbs.



Fast-Acting Photoelectronic Relay Kit

SENSITIVE—RESPONDS TO JUST A GLIMMER OF LIGHT

Only

- Uses Super-Sensitive Cadmium Selenide Photocell
- 1/4 Foot/Candle Light Sensitivity
- Easily Set For Trip or Automatic Operation
- Provides As Many As 600 Counts Per Minute

You'll find all kinds of uses for this dependable, light-controlled switching device-turning lights on and off, opening doors, counting, burglar alarms, "announcing" customers, etc. It's a swift, silent workman that will do a 1001 jobs for you in your home, store or plant. And you can use any light source to activate it-auto headlights, daylight, even light energy from molten metalsor optional light source kit, at right—sensitivity is 1/2 foot candle.

Features selectable operation: "Trip" for burglar alarm—provides continuous ringing of alarm even though intruder steps out of path of light; and "Auto" -if relay is to be operated each time light is blocked. Supplies 6.3 v. AC at 0.6 amps for direct operation of alarm, counters, etc. Relay contacts are rated at 1.5 amps. Power consumption from line is only 3 watts.

Uses a highly-sensitive, cadmium-selenide photocell (more sensitive than sulphide) in a thyratron circuit. Makes as many as 600 counts per minute. Complete with all parts, photocell, metal case, wire, solder and easy-to-follow instructions. 4x3x5". For 110-125 v., 60 cycle AC. 3 lbs.

12-Volt Ammeter-Voltmeter Kit

- Replaces Red-Light Indicators in Autos
- Indicates Battery Voltage; Charge-Discharge Rate
- · Large, Illuminated Meters

Don't take chances with your car's electrical system-know what your generator or alternator is doing! This easy-tobuild kit is for motorists who want more than a red light to tell them how their electrical system is functioning. Easyto-read, large, illuminated meter scales show amperes from -30 to +30 with 0 center scale. Voltage scale is accurately calibrated from 9-15 volts. Can be used with negative or positive ground systems by simple change of cable location. Meters are mounted on a chrome-plated panel for under-the-dash installation. Vibration-proof lights illuminate the meter faces, which have white numbers on Aqua background. Size, 21/2x61/2x21/2". With cables for all cars except rear-engine types. 11/2 lbs.

83 Y 711-J.....ONLY 9.95

LIGHT SOURCE KIT Sealed Beam Bulb

OPTIONAL

Only .

- Includes Red Filter
- Over 500-Foot Range
- Transformer Operated

Designed for use with the Knight-Kit Photoelectronic Relay (left), and other similar-type relays. Consists of a transformer-operated sealed-beam bulb unit that will actuate relay from over 500 feet. A removable, deep-red plastic filter reduces light beam visibility. Produces light near the Infra-red region-practically invisible by day, barely seen at night. With all parts, instructions. 6x6x41/4". For 110-125 v., 60 cycle AC. 5 lbs.

....ONLY 7.75 83 Y 703-J..... 83Y007-J. Chime. Pleasant sounding chime for use with above in stores, offices, etc. 2 lbs.....NET 4.70





See Proof of Knight-Kit Superiority

. . . in Black-and-White . . .

in These Superb Instruction Manuals



Here's an easy way to prove to yourself that Knight-Kits lead the field in up-to-the-minute design and in ease of assembly. Get the actual instruction manual for the kit you want to build and you'll be convinced that Knight-Kits are really better by far.

DIAGRAMS THAT "TALK"

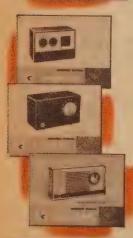
Easy-to-follow, detailed picture diagrams that can be tacked over your work table for clear, ready reference—show you exactly where every single part is located.



"CAN'T MISS" INSTRUCTIONS

You always know exactly where you are and what you're doing with these "do and check," step-by-step instructions. It's just like having a top-notch instructor working at your side!







84 K 028-J. KG	S-12 Multiplex Adapter
84 K 029-J. KG	5-240 20-Watt Stereo Amplifier
84 K 030-J. KG	5-3000 6-Station Transistor Intercom
84 K 031-J. St	ar Roamer Shortwave Receiver
	100 Walkie Talkie
38 K 146-J. Tr	ansistor Code Practice Oscillator
38 K 296-J. 10	9-KC Crystal Calibrator
38 K 852-J. G-	30 Grid Dip Meter
38 K 180-J. V-	44 Amateur Variable Freq. Oscillator
	VR/Power Meter
38 K 928-J. Fly	back and Yoke Checker
38 K 184-J. Re	sistance-Capacitance Checker
38 K 188-J. In-	Circuit Capacitor Checker
	cuum Tube Voltmeter
	OM; 1000 Ohms Per Volt
	2 Volt Battery Eliminator
	gh Gain Signal Tracer
	ope Voltage Calibrator
	dio Generator
	pacitance Substitution Box
	sistance Substitution Box
38 K 168-J. VC	M; 20,000 Ohms Per Volt
	Signal Generator
38 K 199-J. Tra	ansistor Diode Checker
84 K 034-J. 400	A Economy Tube Tester
38 K 884-J. Po	cket Size VOM
37 K 289-J. 12-	in-1 Electronic Lab
84 K 035-J. 21-	in-1 Electronic Lab
38 K 187-J. 2-B	and "Space Spanner" Receiver
38 K 298-J. 4-E	land "Span Master"
	Station Intercom
38 K 297-J. Ra	dio Broadcaster/Amplifier
38 K 853-J. An	nmeter-Voltmeter for Cars and Boats
37 K 290-J. "R	anger III" Table Radio
	anger" Clock Radio
38 K 161-J. Oc	ean Hopper
	ransistor Portable Radio
	cuum Tube Wireless Intercom
	and, 3-Transistor "DX'er"
	Insistorized Electronic Tachometer
	-11 Inboard Stereo Multiplex Adapter
	APOVE Production to a

ANY MANUAL ABOVE. Postpaid in U.S.A.

04.17.040	W2 404 14 44 4
84 K 040-J.	KS-10A Multiplex Adapter
38 K 050-J.	Crystal Set
38 K 934-J.	Photoelectronic Relay
	Light Source
84 K 041-J. 84 K 048-J.	
EACH	UAL ABOVE. Postpaid in U.S.A.
EACH	
84 K 001-J.	
84 K 002-J. 84 K 003-J.	KG-50 AM-FM Stereo Multiplex Tune
84 K 004-J.	· · · · · · · · · · · · · · · · · · ·
84 K 008-J.	KG-2000 Junior DC-5MC Oscilloscope
84 K 009-J.	
84 K 010-J.	KG-4000 1-Watt Walkie Talkie
84 K 011-J.	KG-320 32-Watt Transistor Amplifier
84 K 052-J.	T-60 60-Watt Amateur Transmitter
84 K 012-J.	R-100A Communications Receiver
	R-55 All-Wave Superhet Receiver
38 K 186-J.	C-11 Citizens Band Transceiver
84 K 014-J.	KB-85 70-Watt Stereo Basic Amplifier
84 K 015-J.	KF-75 FM Stereo Multiplex Tuner
37 K 295-J.	KP-50 Stereo Preamplifier
37 K 390-J.	KA-55 40-Watt Stereo Amplifier
	KM-15 12-Watt Hi-Fi Amplifier
84 K 016-J.	KP-70 Stereo Tape Record-Play Preamp
84 K 042-J.	KF-90 AM-FM Stereo Multiplex Tuner
84 K 055-J.	KG-250 20-Watt Stereo Amplifier
84 K 053-J.	KG-65 Hi-Fi FM-AM Tuner
38 K 299-J.	The state of the s
84 K 054-J.	KG-35 Hi-Fi FM Tuner
84 K 023-J.	KG-400 32-Watt Stereo Amplifier
84 K 024-J.	KA-95 70-Watt Stereo Amplifier
84 K 050-J.	KG-60 50-Watt Transistor Stereo Amp
38 K 196-J.	TV-FM Sweep Generator
38 K 167-J.	
	Transistor Wireless Intercom
84 K 026-J.	Deluxe 600A Tube Tester
	JAL ABOVE. Postpaid in U.S.A.
EACH	
84 K 043-J	KU-45 AM-FM Stereo Multiplex Receiver
84 K 044-J.	5" DC Laboratory Oscilloscope
84 K 045-J.	High Gain Preamp for 5" DC Lab Scope
84 K 046-J.	Dual Trace Preamp for 5" DC Lab Scope
84 K 047-J.	100-in-1 Electronic Lab
ANY MANL	JAL ABOVE. Postpaid in U.S.A.
EACH	1.00

68

Tool Sets for Kit Building and Other Uses



5-Piece **Tool Set**



6-Piece **Tool Sets**



Deluxe 9-Piece Tool Set

ECONOMY 5-PIECE TOOL SET

Includes everything you need to easily build your Knight Kit. Consists of: slender Wall "Radioman" 40-watt soldering pencil excellent for kit work; 2 Knight screwdrivers with tough chrome-vanadium steel shafts and rubbed "Amberyl" plastic handles—sizes, 1/8×4", 1/4×6". 5" Miller diagonal cutters of high-grade steel and a steel chest that has full-drawn leak-proof seamless body, snap catch with provision for padlock and 12" rule embossed in blue enamel finished cover.

Shpg. wt., 5 lbs. 83 YX 059-J.....NET 4.49

6-PIECE TOOL SETS

WITH SOLDER GUN. Includes a group of highest-quality tools. Consists of: Wen Model 199. 130-watt solder gun; Knight 6" long-nose pliers; Knight 5" diagonal cutters; Knight 6" screwdriver; Knight 4" narrow blade screwdriver; 12" rule embossed blue enamel finish. Rugged steel chest.

Shpg. wt., 9 lbs. NET 10.95 6-PIECE TOOL SET WITH SOLDERING IRON. As above, but with Wall 14T, 40-125-watt pencil-type soldering iron and stand. Shog. wt., 8 lbs.

83 YX 061-J.....NET 10.95

DELUXE 9-PIECE TOOL SET

An outstanding selection of tools, carefully chosen for quality and utility. Consists of: Weller 8200K Dual-Heat solder gun kit with solder-aid tool, cleaning brush and solder; Knight 7" chain nose pliers with cutter; Knight 6" diagonal cutter; two Knight screwdrivers—½x4" and ½x6"; ½" and ¾" nut drivers, and Wall 863 soldering pencil, 2-tray seamless chest-has 5 compartments in upper tray; plain lower tray, and 12" rule embossed in green enamel cover. Shipping Weight, 11 lbs.

83 YX 062-J.....NET 16.95

TOOL AIDS FOR THE KIT BUILDER

WEN MODEL 199 SOLDER GUN. Instant heat, 130-watt gun with interchangeable tips. Reaches full temperature in just 21/2 seconds. Wt., 21/4 lbs. 46 N 358-J. NET 5.83

B KNIGHT NUT-SCREWDRIVER KIT. 15 pieces. Roll pack holds: plastic handle; 7 nutdrivers—3/16", 1/4", 5/16", 11/32", 3/8", 3/16", 1/2"; 1 and 2 Phillips; 1/8", 3/16", 1/4" slotted screwdrivers. Precision-ground blades. Wt., 1 ½ lbs. 50 N 788-J.....ONLY 7.95

WALL MODEL 14T SOLDER IRON. Pencil-type for close work. 40-125

watts. Thermostatic action. Wt., 7 oz.
46 N 852-J........NET 5.78 D UNGAR IMPERIAL IRON. 40 watts;

KNIGHT 5" DIAGONAL CUTTERS. Quality steel. Wt., 10 oz.

50 N 133-J.....NET 1.84 F KNIGHT 6" PLIERS. Long nose, sidecutting. Wt., 10 oz. 50 N 132-J.....NET 2.10

KNIGHT 7" CHAIN NOSE PLIERS. With cutters. Wt., 10 oz. ONLY 2.50

H KNIGHT 6" SCREWDRIVER. Chrome-

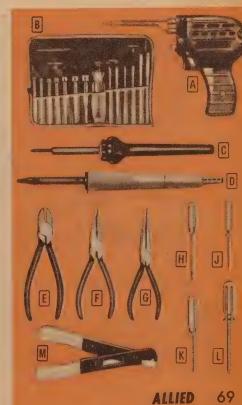
KNIGHT 4" SCREWDRIVER. Chromevanadium steel blade. Overall length, 6%". Shpg. wt., 2 oz.

45 N 374-J.....ONLY 33c KNIGHT #1 Phillips DRIVER. Chrome-

vanadium steel blade. Overall length, 6½". Shpg. wt., 2 oz. 45 N 382-J.....ONLY 60c

KNIGHT #2 PHILLIPS DRIVER. Chrome-vanadium steel blade. Overall length, 75%". Shpg. wt., 2 oz. 45 N 383-J.....ONLY 71 c

M K. MILLER MODEL 100 WIRE STRIP-PER-CUTTER. Quickly and easily strips insulation from wire up to #8, solid or stranded. 5" long. Shpg. wt., 4 oz. 50 N 338-J..... ONLY 87c





KN-724A SPECIFICATIONS-

Power Output: 24 watts IHFM music power; continuous sinewave power, 20 watts.

Response: ±1 db, 30 to 15,000 cps at rated power.

Harmonic Distortion: Less than 2% at rated power.

Hum and Noise: Tuner, -72 db: Mag Phono, -52 db.

Inputs: Mag Phono; Crystal (or Ceramic) Phono; Tuner; Aux.

Outputs: 4, 8, 16 ohms, plus 2 hi-2 for recording.

Output Tubes: 4-6BO5.

Only

\$5 monthly

- More Power and Features Than Any Amplifier in Its Class
- Frequency Response Spans the Full Audio Spectrum
- Magnetic Phono Inputs—Stereo Recording Outputs
- Convenience AC Outlets—Push-Pull Outputs—Pilot Light—Single-Knob Balance Control
- . Modern, Functional Styling

A solid buy at a surprisingly moderate price, we heartily recommend the KN-724A for economy stereo systems. Well equipped, it gives you inputs for the main sources of stereo sound plus all essential controls. Simply by flick-Ing a switch, you go from 12-watt-per-channel stereo output to 24-watt monophonic operation. Separate bass and treble controls let you make tonal adjustments of both channels simultaneously to suit your listening taste to a "T"even if you're using dissimilar speaker systems. Channel-balancing is easy with the handy panel control. Four husky tubes in twin push-pull output circuits give you plenty of low-distortion power. Has two convenience AC outlets (one is switched). Brown metal case, included, is complimented by a polished brass panel-perfectly mates with the KN-170 at right. 41/4x13x9". For 110-120 volts, 60 cycle AC. Made in U.S. Shpg. wt., 21 lbs.

95 DU 031-J. \$5 Monthly.....ONLY 49.95



LOW-COST STEREO PHONO SYSTEM

SAVE UP TO \$55.90 OFF CATALOG PRICES

Only

Marvelous Stereo at a Bargain Price

• Changer Has Turntable-Type Arm

\$5 monthly

Cartridge Has 15-30,000 Cps Response

Coaxial 8" Speakers Give Solid Sound

Our lowest-priced Knight stereo system . . . yet comprised of only first-rate high-fidelity components. Centered around the popular KN-724A, this audio array gives you solid sound and top installation versatility. Includes: Knight KN-724A 24-Watt Stereo Amplifier; Garrard Autoslim/P 4-Speed Changer; two Knight wide-range KN-809 8" Coaxial Speakers; choice of Knight KN-505X, Empire 880, Pickering U38AT, or Shure M3D cartridge. The record changer has a deluxe, tubular arm to take full advantage of the professional-quality Knight cartridge. Speakers have soft-suspension hyperbolic cones for extra bass. 44 lbs.

22 HF 102C-J. Specify Cartridge.....ONLY 99.95

22 HF 103-J. Save up to \$57.29. Above, plus Lincoln L-150 shelf enclosures and changer base. Mahogany, blonde or walnut-specify. Shpg. wt., 71 lbs......ONLY 126.95





New! Includes Case



Economy Stereo Multiplex FM-AM Tuner

Only

\$5 monthly

- Our Lowest-Cost FM-AM Stereo Tuner—But Feature-Packed for Deluxe Performance
- · Receives All Broadcasts-Stereo and Mono FM, and AM
- Automatic Indicator Lights Up When You Tune to Stereo
- Channel Separation Control Adjusts Stereo Effect
- Foster-Seeley Discriminator, 2 IF Stages, Limiter, AFC

A rare value at this pleasantly low price, the new KN-170 was designed to provide a perfectly matched, economical companion for the KN-724A amplifier. Equipped to receive every type of broadcast, it brings you high-fidelity stereo and monophonic FM, and the wide variety of fare offered on AM. What's more, it offers many of the high-quality touches usually found only in higher priced tuners. For example, you enjoy positive identification of FM stereocasts-an automatic indicator lights up whenever a stereocast is being received. A channel separation control assures optimum stereo effect. FM section also has AFC for elimination of drift, and a limiter circuit to block out all static. Sensitive AM circuit has built-in ferrite-rod antenna to pull in distant stations. Has line-cord antenna for FM. With case; same size and styling as KN-742A. For 110-120 v., 60 cycle AC. Made in U.S. 10 lbs. 95 DU 145-J. \$5 Monthly.....ONLY 89.95

KN-170 SPECIFICATIONS

FM Section

IHFM Sensitivity: 4 microvolts for 30 db of quieting.

Response: $\pm 1 \frac{1}{2}$ db, 30-20,000 cps.

IF Bandwidth: 180 kc.

Channel Separation: 25 db.

Harmonic Distortion: less than 0.3% on signals over 20 µv

Hum and Noise: 50 db down.

AM Section

Sensitivity: 6 microvolts for 10 db signal/noise ratio.

Hum and Noise: 50 db down.

STEREO FM-AM PHONO SYSTEM SAVE UP TO \$64.24 OFF CATALOG PRICES

Only

\$11 monthly

- Complete—Everything You Need for Stereo FM, AM, and Stereo Records
- Professional-Quality Magnetic Cartridge
- Vented-Port Enclosures for Extra Bass

Here's a complete home entertainment center fully equipped to bring you the thrilling beauty of stereo FM broadcasts, conventional high-fidelity FM, the sports, news and weather available on AM . . . and the glorious music offered on stereo records. System includes: Knight KN-724A 24-Watt Stereo Amplifier; matching Knight KN-170 Stereo Multiplex FM-AM Tuner; Garrard Autoslim/P Changer and Wood Base; two Knight KN-809 8" Speakers; and two Lincoln L-150 Speaker Enclosures; and choice of Knight KN-505X, Empire 880, Pickering U38AT or Shure M3D. You get all connecting cable, too. In mahogany, blonde or walnut-specify. 81 lbs.

22 HF 104C-J. Specify Finish and Cartridge.... 209.95

22 HF 101-J. Save up to \$74.24. As above, but with Knight KN-820 12" speakers and KN-1286 enclosures in place of KN-809s and L-150s. Oiled walnut only. 105 lbs.... 249.95







All-Transistor 100-Watt Stereo Amplifier

PROFESSIONAL FEATURES



Pushbuttons swiftly and surely select the program source you desire at the touch of a finger—give you noise-free transitions.



Tape Monitor switch lets you listen to tapes as you record them-has 2 positions for monitoring both stereo and monophonic tapes.



Separation Control is continuously variable from full stereo to monophonic. Assures maximum stereo effect regardless of speaker placement.

ABOUT POWER OUTPUT

The output-power ratings of both Knight and Knight-Kit transistorized amplifiers are based on a 4-ohm speaker impedance. However, these amplifiers are engineered to provide efficient performance with an insignificant reduction of audio power, when used with speakers with 8 or 16ohm impedances. You'll enjoy all the benefits of transistors, including the extended, amazingly clean bass response that is achieved through the elimination of the output transformers.

Only

\$10 Monthly

- Tremendous Power Plus Professional Features
- Drives Any Speaker to Its Peak Performance Level
- Reproduces Every Shading and Nuance of Music
- Cool-Running Circuit Offers Phenomenal Reliability
- No Output Transformers—Instant Warm-Up

Our very best amplifier! The new KN-450A gives you the astonishingly clean and pure stereo sound that only an ultra-reliable all-transistor design can offer. Created by Knight-a pioneer in transistorized hi-fi-this "100-watter" is the latest and even more powerful version of the famous KN-450.

No output transformers are used, so you enjoy extra-powerful, supremely natural bass. Other highlights are: instant warm-up; very little heat-even after hours of use; rugged military-type terminal board wiring; a full array of 15 controls; stereo headphone jack; a 2-position switch to permit monitoring either monophonic tapes, or stereo tapes as you record; 2 switches for phasing all channels to one another; positive circuit-breaker protection that eliminates fuses; 5 stereo inputs; 2 convenience AC outlets.

The KN-450A includes a dark brown textured metal case with a polished brass control panel. Has 18 transistors and 2 silicon rectifiers. Walnut case optional; see facing page. 3\%x13\%x12\%". Made in U.S. For 110-125 v., 60 cycle AC. Shpg. wt., 17 lbs.

95 DU 027-J. \$10 Monthly ONLY 189.95

- KN-450A SPECIFICATIONS

IHFM Music Power: 100 watts; 50 watts per channel.

Frequency Response: ±0.5 db, 20 to 30,000 cps at rated power.

Harmonic Distortion: 0.5% at rated power.

Hum: -90 db at tuner input; -60 db at magnetic phono input.

Inputs (5 pairs): Mag. Phono; Tape Head; Tuner; Auxiliary; Tape Monitor.

Outputs: 4-16 ohms per channel; 2 high-impedance for recording; headphones; center channel (hi-Z-requires additional amplifier).





All-Transistor Stereo Multiplex FM-AM Tuner

MOST ADVANCED DESIGN



Panel Light flashes on to show when FM stations are transmitting stereo—you'll never dial past a "stereocast."



Tuning Meter assures you of optimum FM or AM reception—just tune for a maximum meter reading.



Silencing Control completely quiets your speakers while dialing between FM stations—stops hiss and roaring.

WHY USE TRANSISTORS?

Because of the enormous advantages they give to the hi-fi listener! Sound is cleaner, purer than you ever dreamed possible. Heat generated is virtually negligible—only a minimum of ventilation is required. Transistor circuitry also means: phenomenal reliability; full freedom from mechanical noises; and high stability. And of course there's another big extra—transistorized equipment occupies far less space—solves almost all placement problems.

Only

\$18995

Less Case

- Our Best-A Milestone in Wideband Tuner Design
- Flawless Reception of Stereo and Mono FM, Plus AM
- Absolute Freedom from All Mechanical Noise
- Has AFC. Automatic Stereo Indicator Light
- Muting Control for Absolute Silence Between Stations

This remarkable new tuner is masterfully engineered to give you every benefit of advanced all-transistor circuitry. The new KN-160 incorporates all of the skill and experience of Knight engineers, world leaders in transistorized hi-fi, to deliver incredibly realistic stereo FM reception, plus standard FM and AM performance of striking clarity. In addition, a variety of circuit innovations offer the ultimate in convenience: a variable muting control stops inter-station noise while dialing FM; a signal-strength-type meter assures micro-accurate FM-AM tuning; flywheel weighted tuning control has velvet-smooth action; and a tuned RF stage plus a 10-kc whistle filter offer highest fidelity on AM. The FM circuit also has: tuned RF stage; 4 IF /limiter stages; AFC for no-drift operation; wideband ratio detector; and 300-ohm antenna input. Includes built-in AM antenna, external FM indoor antenna; 2—3-ft. audio cables. Has 20 transistors, 8 diodes, silicon rectifier. Panel matches KN-450A. Less case, below. 3½x13½x12½″. Made in U.S. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 12 lbs.

95 DX 554-J. Oiled Walnut Case for KN-160 or KN-450A. 6 lbs. ONLY 14.95

95 DX 002-J. Metal Case for KN-160. Dark brown texture. 3 lbs. ONLY 4.95

- KN-160 SPECIFICATIONS

FM Sensitivity (IHFM): 2 µv for 30 db quieting.

AM Sensitivity: 5 µv for 20 db signal-to-noise ratio.

FM Bandwidth: 260 kc.

Distortion: Negligible at all listening levels.

FM Stereo Separation: 30 db.

Outputs: 2 low-impedance; 2 high-impedance for stereo taping.



STEREO HI-FI MUSIC SYSTEMS

Knight's finest stereo systems are featured on these two pages ... each is centered around our most powerful all-transistor amplifier, the new KN-450A . . . utilizing all the advantages of solidstate electronic engineering.





Knight KN-450A 100-Watt Amplifier





Two Knight KN-612HC 12" 3-Way Speakers

Entire System

\$17 monthly

Knight KN-450A 100-Watt	#400 OF
Stereo Amplifier	.\$189.95
Garrard Type "A"	
Automatic Turntable	79.50
Knight KN-505X Cartridge	39.95
(or choice of 3 others)	
Two Knight KN-612HC	
3-Way 12" Speakers	119.90
CATALOG PRICE	.\$429.30
SYSTEM PRICE	349.95



YOU SAVE \$79.35

Custom 100-Watt Phono System

SAVE \$79.35 OFF CATALOG PRICES. Designed for those who insist on the best and most up-to-date equipment, plus maximum installation flexibility, this magnificent system reproduces sound with the fidelity to delight even a professional musician. Includes: Knight KN-450A 100-Watt Transistorized Stereo Amplifier in Metal Case; Garrard Type "A" Changer; two Knight KN-612HC 12" 3-Way Speakers; and choice of Knight KN-505X, Empire 880, Pickering U38AT; or Shure M3D Cartridges. You also get all necessary cables and plugs. Our KN-450A amplifier has tremendous reserve power to easily handle the most thunderous passages. The changer is the finest made by Garrard, and the deluxe speakers deliver extra-powerful bass reproduction. Mount them anywhere! Shpg. wt., 103 lbs.

22 HF 119-J. \$17 Monthly. Specify Cartridge... 22 HF 120-J. FM-AM Phono System. Save \$94.25. Above, plus Knight KN-160 Stereo FM-AM tuner in Metal Case. 115 lbs. Specify Cartridge. ONLY 529.95 95 DX 554-J. KN-6. Walnut Case for KN-450A or KN-160. 6 lbs... ONLY 14.95 73 RX 056-C. Wood Base for Type "A". In mahogany, limed oak or walnutspecify choice. Shpg. wt., 4 lbs......NET 4.49

DANISH MODERN 3-PC. FURNITURE GROUP

Consists of KN-1500 equipment cabinet and two KN-1275 speaker enclo-sures—a fine "home" for the system above. (Described elsewhere in this

section.) Oiled walnut. 220 lbs. 95 DZ 426-3J. \$12 Monthly....239.95 95 DZ 429-3J. As above, but in easyto-build kit form.....ONLY 194.95





STEREO HI-FI MUSIC SYSTEMS

Perfect Musical Balance is assured in any Allied hi-fi system ... components are selected to match in quality and characteristics. Plug-In Connecting Ease is yours too . . . cables are colorcoded-anyone can connect an Allied system.



Deluxe 100-Watt Phono System

NOW SAVE \$93.84 OFF CATALOG PRICES. A sensational, ready-to-use component array offering phenomenal stereo performance. Just mount the changer on its base and interconnect the components with the cables supplied .. in minutes you're set for an exhilarating experience . . . reproduction of your favorite music with such incredible realism that it simply cannot be described. includes: Knight KN-450 A100-Watt Transistorized Stereo Amplifier and Metal Case; Garrard Type "A" Changer and Walnut Base; two Knight KN-2300 3-Way Speaker Systems in Oiled Walnut; and choice of Knight KN-505X, Empire 880, Pickering U38AT or Shure M3D Cartridges. The changer features a 6-lb. turntable; cartridge delivers a 15-30,000 cps response! Deluxe KN-2300s have three speakers for full response. 140 lbs.

.....ONLY 419.95 22 HF 121-J. \$19 Monthly. Specify Cartridge...... 22 HF 118-J. Save \$108.74. Above, plus Knight KN-160 Stereo FM-AM tuner in Metal Case. \$25 Monthly. Specify Cartridge. 153 lbs......ONLY 599.95 95 DX 554-J. KN-6 Walnut Case for KN-450A or KN-160. 6 lbs.. .ONLY 14.95

ALL MUSIC SYSTEMS INCLUDE THESE EXTRAS-FREE

Entire System

*\$19 monthly

KN-450A 100-Watt Stereo Amplifier	€180 05
	, \$103.30
Garrard Type "A"	
Automatic Turntable	79.50
Knight KN-505X Cartridge	39,95
(or choice of 3 others)	
Walnut Changer Base	4.49
Two Knight KN-2300s	199.90
CATALOG PRICE	513.79
SYSTEM PRICE	
YOU SAVE	\$93.84



Installation Instructions makes set-up a snap-no tech-nical knowledge needed.



Pre-set stylus pressureno adjustments for you to



You get all cables and connectors-they're colorcoded too!



A copy of Allied's Own Discount Tape and Record Catalog. Saves you up to 40 %.



Crystal-clear operating instructions help you get the most from your music system.



TRANSISTORIZED STEREO HI-FI

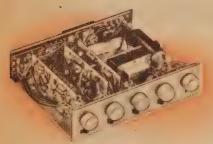






All-Transistor 40-Watt Stereo Amplifier

PERFORMANCE-PROVEN YEARS-AHEAD DESIGN



CIRCUIT FEATURES the use of 16 transistors, 2 temperature-compensating thermistors, plus 4 diode rectifièrs. No tubes or output transformers are required-truly advanced design!

MISSILE-AGE military-type terminal board wiring—the last word in quality and reliability.

SUPERB SOUND ... that literally must be heard to be believed! Reproduces sound in a way that is downright breathtaking in its realism.

NO MICROPHONICS since there are no tubes-instant warm-up, too.

FULLY TESTED in the lab and in the field. Unconditionally guaranteed for one full year!

Only

\$5 monthly

- Enjoy These Advantages—Compact Size, Cool Opera tion, Positively No Mechanical Noise, Instant Warm-u
- Response is Within 1 db From 20 to 20,000 Cps
- Tape Head Inputs—Scratch & Rumble Filters
- High-Impedance Outputs for Stereo Recording

Enjoy all the great benefits that solid-state transistor design brings to high fidelity! A prime example of space-age electronic development, the famou KN-400B not only gives superlative 40-watt stereo hi-fi sound, but offers thes major advantages: no waiting for filaments to warm up-turn it on and it play instantly; full freedom from microphonics-there are no elements in a tran sistor that generate mechanical noise; greatly reduced heat dissipation due t very low power-consumption-draws a mere 25 thousandths of an am when operating at quiet levels!

Another benefit of the KN-400B is its fantastically rugged construction. Transistorization plus terminal-board wiring make it almost immune to jolts of vibration-it's really built to last. Other features: scratch and rumble filters a switch to parallel both channels for top performance from monophoni sources; pilot light. Operates with 4, 8 or 16-ohm speakers. With dark brown metal case, polished brass panel. Only 25/x93/x8" deep. Made in U.S. For 105 120 v., 50-60 cycle AC. Shpg. wt., 9 lbs.

95 DU 028-J. \$5 Monthly.....ONLY 99.9

95 DX 553-J. KN-5 Wood Case for Above. Oiled walnut veneer. 4 lbs. ONLY 7.9

-KN-400B SPECIFICATIONS-

IHFM Music Power: 40 watts; 20 watts per channel.

Response: ±1 db, 20-20,000 cps at rated power.

Hum: Tuner, -90 db; Phono, -60 db.

Inputs (5 Pairs): Mag Phono; Tape Head; Tuner; Aux 1; Aux 2.

Outputs: 4 ohms (operates with 8 or 16-ohm speakers); 2 hi-Z for recording.



With Metal Case



\$6 monthly

Transistor-Nuvistor Stereo FM Tuner

PROGRAM MON STEREO

- Brings You the Fantastic "You Are There" Realism of Stereo Multiplex FM
- Automatic Stereo Indicator Lights When Station is Stereocasting
- Uses RCA Nuvistors for Super-Sensitivity, and Transistors for Small Size, Ruggedization and the Stability of Heat-Free Operation
- Has Automatic Frequency Control, Tuning Meter, Recording Outputs

Skilled Knight engineering has incorporated the latest refinements in this improved version of the famous KN-250M . . . a high-fidelity instrument with every essential facility including an automatic stereo indicator light. You enjoy the full depth, dimension and movement of a performance just as if you were in a choice music hall seat. You get superior conventional FM, too. The circuitry making this possible employs four RCA nuvistors in the RF amplifier, mixer, oscillator and AFC stages for splendid signal-getting ability even in poor-signal areas; while the wideband IF and multiplex sections use latest design transistors. The result: a cool-running circuit with superb fidelity, top stability and long life. Signal-strength type meter shows when you're perfectly tuned, and automatic frequency control keeps you there-never any drift. For tape fans, there are high-impedance outputs for "off the air" recording. Also: Mono-Stereo switch; logging scale.

The KN-250A exactly matches the KN-400B amplifier (facing page) in styling and size. Has 300-ohm antenna input. Includes metal case; twin-line type external indoor antenna; two 36" audio cables. Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 7-1/2 lbs.

95 DU 003-J. \$6 Monthly.....ONLY 119.95

95 DX 553-J. Model KN-5 Wood Case for Above. Beautiful, genuine oiled walnut veneer. 4 lbs......ONLY 7.95

-KN-250A SPECIFICATIONS-

Usable IHFM Sensitivity: 2 μ V for 30 db quieting. Distortion: Negligible at all listening levels.

Frequency Response: 30 to 20,000 cps.

IF Bandwidth: 230 kc. Channel Separation: 30 db.

KN-260CA STEREO MULTIPLEX FM TUNER WITH CLOCK-TIMER

For an extra measure of convenience, use the KN-260CA to automatically control your music system. It's identical to the KN-250A above, but also includes a built-in clocktimer that turns your high-fidelity system on or off at preset times. Easy-to-use controls. Size, just 23/x137/8x8".

The Height of Convenience!





Best Way to Buy-Credit Fund Plan



STEREO HI-FI MUSIC SYSTEMS

CUSTOM SYSTEM

Enjoy unlimited flexibility of installation . . . mount the speakers in a wall, in your own cabinetry, or in the optional enclosures at right. Changer goes anywhere, too.



Entire System

Optional: Knight KN-250A Stereo FM Transistor-Nuvistor Tuner

\$10 monthly

Knight KN-400B 40-Watt Stereo
Amplifier
Garrard AT6 Changer54.50
Knight KN-505X Cartridge 39.95 (or choice of 3 others)
Mr M. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

Two Knight KN-830 12" 3-Way CATALOG PRICE....\$248.30 SYSTEM PRICE.... 189.95

YOU SAVE \$58.35



Custom 40-Watt Stereo Phono System

SAVE \$58.35 OFF OUR CATALOG PRICES. A super-quality recordplaying stereo system comprised of the newest-design components. Features our Knight transistorized 40-watt amplifier for transparently clear stereo sound plus the many other advantages of solid-state electronics design. System includes: Knight KN-400B 40-Watt Stereo Amplifier and Metal Case; Garrard AT6 4-Speed Automatic Turntable; two Knight KN-830 12" 3-Way Speakers; and choice of Knight KN-505X, Empire 880, Pickering U38AT or Shure M3D Stereo Cartridge. You get pre-set stylus pressure and all necessary cables and plugs, too. The compact AT6 features a precision turntable-type pickup arm. Shpg. wt., 44 lbs.

22 HF 110-J. \$10 Monthly. Specify Cartridge.....ONLY 189.95

22 HF 111-J. Save \$68.30. As above, plus Knight KN-250A Transistor-Nuvistor stereo multiplex FM tuner. Wt., 52 lbs. \$15 Monthly......ONLY 299.95

73 RX 057C. Wood Base for AT6. In mahogany, limed oak or walnut-specify

95 DX 553-J. Wood Case for KN-400B or KN-250A. Genuine oiled walnut veneer. Shpg. wt., 4 lbs..... ONLY 7.95

KNIGHT CONSOLETTE and SPEAKER ENCLOSURES FOR ABOVE

KN-2055 CUSTOM CONSOLETTE. Drop-front door. Oiled walnut. Described elsewhere, 60 lbs. 95 DZ 525-J. \$5 Monthly ONLY 69.95

KN-1285 ENCLOSURES. Perfect match-beautiful oiled walnut. Described elsewhere. 30 lbs. 95 DZ 526-J. TWO FOR ONLY 69.90

12" 3-Way Speakers

Garrard AT6 Automatic Turntable; Choice of Four Cartridges

Allied Guarantees Your Satisfaction



Deluxe 40-Watt Stereo Phono System

SAVE \$68.84 OFF OUR CATALOG PRICES. The amplifier is hardly larger than a book . . . the trim, two-tone changer is a fine showpiece . . . and the compact speaker systems neatly tuck away on shelf or floor, in lowboy or highboy positions . . . a great stereo system for use where space is restricted but no sacrifice in audio quality is tolerable. System includes: Knight KN-400B 40-Watt Stereo Amplifier and Metal Case; Garrard AT6 Automatic Turntable and Walnut Base; two Knight KN-2200 3-Way Speaker Systems in Oiled Walnut; and choice of a Knight KN-505X, Empire 880, Pickering U38AT, or Shure M3D Stereo Cartridge. Plus—all cables, pre-set stylus pressure, AT6 features: tubular pickup arm with adjustable counterweight, gram pressure scale, silent operation. The famous KN-2200s each have 4 speakers to faithfully respond from 30 cps to beyond audibility! Shpg. wt., 104 lbs.

22 HF 108-J. \$15 Monthly. Specify Cartridge......ONLY 289.95

22 HF 107-J. Save \$78.79. As above, plus Knight KN-250A Transistor-Nuvistor Stereo Multiplex FM Tuner. Wt., 112 lbs. \$18 Monthly...........ONLY 399.95

95 DX 553-J. Wood Case for KN-400B or KN-250A. Genuine oiled walnut veneer. Shpg. wt., 4 lbs......ONLY 7.95

KN-2055 CUSTOM CONSOLETTE EQUIPMENT CABINET

Use this highly compact, console-type unit to provide a striking, customized home for all the components in the system above (except speakers). Has

drop-front door, solid 3/4" paneling, etc. (Described elsewhere in this section). Oiled walnut. 60 lbs.

95 DZ 525-J. \$5 Monthly ONLY 69.95

\$28995

\$15 monthly

Knight KN-400B 40-Watt Stereo Amplifier	. \$99.95
Garrard AT6 Changer	. 54.50
Walnut Changer Base	. 4.49
Knight KN-505X Cartridge (or choice of 3 others)	. 39.95
Two Knight KN-2200s	. 159.90
CATALOG PRICE	. \$358.79
SYSTEM PRICE	. 289.95
YOU SAVE	\$68.84





Transistor-Nuvistor 40-Watt Stereo FM Receiver

TUNER SPECIFICATIONS

FM Sensitivity (Usable IHFM): 2 uv for 30 db of quieting.

Hum: Tuner, -90 db; Mag Phono,

IF Bandwidth: 230 kc.

Circuit: 4 RCA Nuvistors in RF and AFC stages, and 8 transistors.

AMPLIFIER SPECIFICATIONS IHFM Music Power Output: 40 watts;

20 watts per channel:

Response: ± 1 db, 20-20,000 cps at full rated output.

Inputs (4 Pairs): Mag Phono; Tape Head; Aux 1; Aux 2.

Outputs: 4-16 ohms; plus hi-Z.

Harmonic Distortion: Below 1% at full rated output (at 1000 cps).

Channel Separation: 30 db, min. Circuit: 16 transistors, 2 thermistors,

4 diodes.

Only

\$10 monthly

- · Most Compact, Most Advanced "All-in-One" Stered FM Receiver Ever Made—Only 41/8x91/8x8" Deep
- Automatic Stereo Multiplex Indicator Light
- Transistor Circuit Eliminates Output Transformers— Get Sound Quality Never Before Achieved in Hi-F

The years-ahead KN-310A combines, in an amazingly compact package, ar ultra-sensitive Transistor-Nuvistor stereo FM tuner . . . and an all-transistor 40-watt stereo amplifier. Just add a record changer and speakers for a complete music center delivering hi-fi sound of fantastic realism.

Brilliant FM circuitry, using both transistors and tiny advanced-design RCA Nuvistors, gives you stereo reception that flawlessly recreates the origina performance—with striking clarity and all of its exciting directional characteristics. You get superb monophonic FM, too. Has AFC and signal-strength tuning meter, plus indicator to show when you're receiving stereo.

Cool-operating amplifier has a full array of controls and inputs. Its transformerless output circuits offer wondrously clean sound with ultra-smooth bass. Has AC convenience outlet; external antenna; 2-3-ft. cables. Brown case; polished brass panel. Made in U.S. For 110-120 v., 60 cycle AC. Wt., 18 lbs. 95 DU 053-J. \$10 Monthly ONLY 199.95

Stereo FM Receiver with CLOCK-TIMER

EXCLUSIVE AT ALLIED. An important convenience feature! The KN-310CA is exactly the same as the transistor-Nuvistor stereo receiver described above, but with a slightly wider case that accommodates a handy clock-timer. Gives you an accurate time-piece, plus the added convenience of automatic control—set it to turn your entire hi-fi system on or off at any pre-determined time so that you won't miss favorite FM programs. 4 1/2 x 13 1/4 x 8". Shpg. wt., 20 lbs.

95 DU 054-J. \$11 Monthly ONLY 214.95





Deluxe, Ultra-Compact Stereo FM-Phono System

Special System Discount

LOOK HOW YOU SAVE OVER REGULAR CATALOG PRICES

Stereo FM Receiver \$199.95
Garrard AT6 4-Speed Automatic Turntable 6.5.55 54.50
Wood Base for Changer
Knight KN-505X Cartridge with Diamond Needle, (or choice of 3 others)
Two Knight KN-2200 3-Way Speaker Systems 159.90

SYSTEM PLAN PRICE 389.95

REGULAR CATALOG PRICE \$458.79

YOU SAVE..... \$68.84

NO MONEY DOWN ...

There's no need to put off enjoying the Knight hi-fi components of your choice if you don't have ready cash. Our liberal Credit Fund Plan lets you own anything in this Catalog without any money down—and with up to two years to pay. You also enjoy up to 50% more buying power, and many other important advantages and conveniences—including the opportunity to make "add-on" purchases at any time with just your signature. For details, see Credit Fund page.

SYSTEM PRICE

\$389⁹⁵

\$18 monthly

- One of the Best Music Systems Money Can Buy
- Perfectly Balanced for Exciting Full Depth Hi-Fi Sound
- · Handsome, Space-Saving-Fits Almost Anywhere
- Deluxe Changer Permits Tracking at Ultra-Low Pressure—Offers Dazzling Reproduction

A superb-quality, complete multiplex FM-Phono system featuring components of the newest, most advanced design. Providing unusual flexibility of installation made possible by clever space-saving engineering, they fit beautifully into the most luxurious of settings. System includes: Knight KN-310A 40-Watt Stereo FM Receiver; Garrard Deluxe AT6 Automatic Turntable with Wood Base in walnut finish; two Knight KN-2200 3-Way High-Compliance Speaker Systems; and choice of Knight KN-505X, Empire 880, Pickering U38AT, or Shure M3D cartridges. Also included, are Allied's exclusive music-system extras: all necessary cables and plugs; pre-set stylus pressure; our own Discount Record and Tape Catalog; and more.

A trend-setting high-fidelity component of years-ahead design, the unique Knight KN-310A offers wonderful, transparently clear sound from its all-transistor amplifier section. . . and amazing sensitivity from its transistor-Nuvistor FM tuner section. Garrard's 4-speed AT6 record changer is equipped with a 6-pound cast turntable and a professional-type pickup arm for record reproduction with spectacular fidelity you would never have believed possible. Handsomely styled in genuine oiled walnut hardwood veneer, the Knight KN-2200 speaker systems are truly a design classic—they cover the entire audio spectrum with sparkling clarity. Shpg. wt., 113 lbs.

22 HF 109-J. \$18 MonthlyONLY 389.95

KNIGHT Hi-Fi Systems . . . Exclusive at Allied—Tops in Value

The unmatched quality of Allied's own Knight components plus the tremendous savings you receive with Allied's System Discount Plan make Knight Hi-Fi Systems your finest value. Whether you select our own matched component ensembles—or make up your own combination, you get much more for your money with Knight. There's advanced styling, superb engineering, rugged dependability and an unconditional one-year guarantee on all Knight high fidelity components. Whether you're shopping for an individual component or planning a system, you'll do better—save more with Knight.



Value-Plus 55-Watt Stereo Hi-Fi Amplifier

YOU GET MORE IN QUALITY

BALANCE



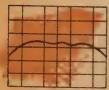
BALANCE control gives optimum stereo realism—from any listening point—with any speaker placement.



SEPARATION is fully variable from monophonic to stereo —never any "hole-inthe-middle" effect.



FOUR 6LSGC output tubes deliver powerful performance—permit a wide dynamic range for utmost stereophonic realism!



WIDE-RESPONSE is assured by massive output transformers—enjoy full-throated bass and clean, clear treble response.

\$9995

\$5 monthly

- Husky Power Output—Wide-Range Response—Luxury Styling—Moderate Price
- Highest-Quality Output Transformers for Increased Low and High-Frequency Performance
- Positive Circuit-Breaker Protection—No Fuses to Replace

Feature for feature, the fast-selling KN-755 gives you more for your hi-fi dollar. This proven stereo amplifier boasts four husky 6L6GC output tubes operating into massive transformers to deliver extra-powerful bass and wonderfully clear mid-range and treble across the audible range—at any level. Includes deluxe preamp section, equipped with DC-operated tube filaments for hum-free stereo and monophonic listening.

The input selector chooses any desired audio source—tape head, magnetic phono, ceramic phono, tuner or auxiliary. A channel-reversing switch gives correct orientation for proper stereo effect. Also has: rumble filter; master volume control that converts to a contour loudness control at the flick of a switch; stereo-mono switch; convenient push-to-reset circuit breaker that ends fuse-changing forever; 2 convenience AC outlets; independent stereo tape recording outputs; and a pilot light.

- KN-755 SPECIFICATIONS -

IHFM Music Power Output: 55 watts; 27½ watts per channel; continuous sine wave power, 22½ watts per channel.

Frequency Response: ±1 db, 30-20,000 cps at rated power.

Harmonic Distortion: Below 1% at full rated output. Hum and Noise: Tuner, -80 db; Mag Phono, -58 db.

Output: 4, 8, 16 ohms per channel; plus 2 high-impedance for taping.





STEREO HI-FI
TUNERS





Economy Stereo Multiplex FM-AM Tuner



Automatic Stereo Indicator Light

Panel light automatically flashes on whenever FM stereo is being received. You'll never inadvertently dial past a station that is transmitting a broadcast in stereo!

Bar-Type Tuning Eye



A beam of blue light that closes to show when you are precisely "on frequency." Assures maximum signal strength and lowest distortion.



Channel Separation Control

Electronically "moves" speakers closer together or farther apart for the best stereophonic effect.

\$109⁹⁵

\$6 monthly

- Provides Panoramic Stereo Multiplex FM Reception, Plus Sparkling Monophonic FM and High-Quality AM
- FM Circuit has AFC for Absolute Freedom From Drift
- Built-In AM Antenna Plus External FM Antenna

Right up-to-the-minute in timely design, our bargain-priced KN-137M tuner gives you excellent reception of everything that radio broadcasting has to offer. Enjoy the experience of panoramic FM multiplex "stereocasts," high-fidelity monophonic FM, and outstanding AM clarity. You'll like the simplified operation, too—advanced features and easy-to-use controls always assure peak reception of every broadcasting mode.

Convenience features include a selector for choosing AM, FM or FM stereo; smooth flywheel tuning; FM-AM tuning indicator that narrows to hairline width when you're "dead-center" on frequency; 300-ohm input for FM antenna; high-impedance outputs that permit direct "off-the-air" recordings; easy-to-read, calibrated logging scale.

KN-137M SPECIFICATIONS

FM Sensitivity (Usable IHFM): 3 microvolts for 30 db of quieting.

AM Sensitivity: 10 microvolts for 20 db signal-to-noise ratio.

FM Bandwidth: 280 kc.

FM Response: ±0.5 db, 20-20,000 cps. Stereo FM Channel Separation: 30 db.

Outputs: 4 high-impedance; 2 each on FM and AM.



Our Best-Selling Stereo Multiplex FM Tuner

Deluxe Features

Panel Light Flashes On to Show when You Are Receiving Stereo



Channel Separation Is Variable Continuously from Mono to Stereo

SPECIFICATIONS

Sensitivity (Usable IHFM): 4 microvolts for 30 db of quieting.

Channel Separation: 30 db.

IF Bandwidth: 220 kc.

Hum and Noise: -40 db.

Outputs: 4 high-impedance.

Only

\$5 monthly

- Tried-and-True Built-In Multiplex Circuit
- Separate Outputs for Taping Stereo Broadcasts
- Accurate Tuning Indicator for Peak Reception
- Automatic Frequency Control for Top Stability

Introduce yourself to the thrill of stereo FM broadcasts with this economical tuner. Jam-packed with value, the KN-141M provides a wealth of features t give you outstanding FM at surprisingly low cost. Among its highlights: a indicator light that automatically flashes when a station is "stereocasting. And at your fingertips, is a channel separation control for adjusting from monophonic to full panoramic stereo-a great aid when speakers must b widely spaced. Also: AFC circuit for freedom from drift; cathode-ray tunin-indicator for always-peak reception; smooth-action weighted tuning contro handy Mono-Stereo switch; and 300-ohm antenna input. A grounded-grid R amplifier and a precisely aligned ratio detector contribute to consistently high audio quality. Metal case has dark brown textured finish; front panel i polished brass. With built-in antenna, 2-3-ft. audio cables. 43/x113/x101/ deep-matches KN-755 Amplifier on preceding page. Made in U.S. For 110-12 volts, 50-60 cycle AC. Shpg. wt., 15 lbs. 95 DU 006-J. \$5 Monthly..... ONLY **79.9**

LOW-COST ULTRA-COMPACT HI-FI FM TUNER

This budget-priced tuner provides sparkling clear reception of FM programs. And no other compact FM tuner-anywhere near the KN-141C's modest price-gives you both automatic frequency control (AFC), plus a cathode-ray tuning indicator.

Features: RF stage; 2 extra outputs for recorder, and multiplex adapter; built-in antenna plus a 300-ohm antenna input. Sensitivity, 4 µv for 30 db of quieting. Main output, approx. 0.5 v. With 3-ft. audio cable. 25/8x93/4x8". With metal case; walnut case optional. Made in U.S. For 110-120 v., 50-60 cycle AC. 71/2 lbs.

95 DU 014-J. \$5 Monthly. ONLY 49.95

WALNUT CASE. For above, 3 lbs. 95 DX 553-J.....ONLY 7.95



Has AFC and Accurate Bar-Type Tuning Indicator

Plays Beautifully Through Hi-Fi, TV, Phonos

Extra Outputs for Recorder and Multiplex Adapter

Only Less Wood Case

Lowest Prices—Best Quality—Satisfaction Guaranteed



HIGH-FIDELITY COMPONENTS

See Pages 70-114 for the Full KNIGHT Hi-Fi Line

America's Finest Values in Audio Components for Home Entertainment

5 BIG REASONS WHY KNIGHT IS YOUR BEST BUY

- * Exclusive Products of Allied, Knight components are sold to you DIRECT . . . you get highest quality at lowest prices!
- ★ Up-to-the-Minute audio technology gives you the benefit of newest developments . . . including sensational transistorized components that set the pace for future high-fidelity design.
- * Choose from a Full Line of matched tuners and amplifiers, speakers and enclosures, integrated speaker systems, record and tape-playing equipment, plus luxurious cabinetry.
- * Money-Back Guarantee . . . you must be satisfied with your Knight component, or your money will be refunded.
- * Unconditional One-Year Guarantee, including both parts and labor, on all Knight hi-fi components. You simply can't go wrong.

Multiplex Adapter for Magnificent Stereo FM







Channel Separation **Control Permits** Easy Adjustment for Maximum Stereo Effect

Only

\$5 monthly

It's here . . . a low-cost multiplex adapter for receiving thrilling stereo FM broadcasts through your present stereo system . . . and with every desirable feature, too. An ever-alert panel indicator lights up the moment you tune to a stereocast, or when the station to which you are already listening begins a stereo transmission. In addition, a channel separation control allows you to quickly adjust for best stereo effect. Connects to your FM tuner's multiplex output jack in moments: 3—36" plug-in cables are included. Has pilot light. Brown metal case is just 4%x5x75%" deep. Polished brass panel. Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.ONLY **39.95** 95 DX 065-J. \$5 Monthly.....

WHAT IS FM MULTIPLEX?

FM multiplex broadcasts consist of two channels of sound (stereo) transmitted over a single FM station. You can hear these broadcasts with a regular FM tuner-but to hear them with the striking illusion of being at the actual performance (which is provided by stereo), you must . . . add a multiplex adapter to the FM tuner in your stereo system . . . or purchase a tuner with built-in multiplex. Either way, you enjoy the same hi-fi response, wide dynamic range and excellent channel separation you now experience with stereo records and tapes.

85



Our "Big Buy" 40-Watt Stereo Amplifier



5-Position input selector instantly chooses Auxiliary, Tuner, Tape Head, or either Magnetic Phono or High-Level Phono inputs.



Balance Control adjusts channels for perfect stereo effect-even when speakers cannot be placed for optimum performance.



Loudness Control (plus Contour switch) maintains proper tonal balance-even at moderate or low listening levels. A deluxe feature!

NO MONEY DOWN

You can own the Knight hi-fi components of your choice-or anything else in this catalog-for No Money Down. Our liberal Credit Fund Plan lets you take up to two years to pay. You enjoy up to 50% more buying power, too. So why put off enjoying your own music system? Just fill out the application form on the back of any Allied order blank. For details, see page 456.

Only

\$5 monthly

- Plenty of Power to Drive Any Speaker System
- All the Inputs You'll Ever Need for Any Music Source

Includes Case

- Full Array of Controls for Top Flexibility-Both Stered and Mono
- Two Tape Recorder Outputs Permit "Off the Air" Stered Multiplex Recordings-Includes Tape Head Inputs

A first-rate amplifier offering full facilities for any stereo or monophonic music source and plenty of power for solid, impressive high-fidelity sound The clean 40-watt output of the KN-735 drives any speaker system, even low efficiency types, to room-filling volume levels. The versatile preamplifier circuit features the necessary controls for easy and precise audio regulation of all the components in your stereo music system. Unquestionably an outstanding buy for any economy music system.

Other highlights: separate bass and treble controls; Lo-Filter for reducing turntable rumble without loss of bass; Hi-Filter for reducing noise on worn records; panel switch for instant choice of stereo or full 40-watt monophonic operation; and tape head inputs. Separate high-Z outputs permit professionalquality tapes of FM "stereocasts" and stereo records. Dark brown textured metal case. Panel is light, brushed brass. 43/4x133/4x91/4". Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs. 95 DU 100-J. \$5 Monthly......ONLY 79.95

KN-735 SPECIFICATIONS -

IHFM Music Power Output: 40 watts; 20 watts per channel; continuous sine wave output, 14 watts per channel.

Frequency Response: ±1 db, 40-18,000 cps at rated power.

Hum and Noise: Tuner, -75 db; Mag Phono, -55 db.

Distortion: Harmonic, 1% at rated output.

Inputs (5 pairs): Tape Head; Magnetic Phono; Ceramic (or Crystal)

Phono; Tuner; Auxiliary.

Outputs: 4, 8, 16 ohms per channel; plus 2 high-impedance for recording.

86 ALLIED **Allied Guarantees Your Satisfaction**



40-Watt Stereo Phono System at \$46.35 Savings

Special System Discount

REGULAR CATALOG PRICES

Knight KN-375 Amplifier.....\$79.95

Garrard Autoslim Changer.... 39.50
Knight KN-505X Cartridge
with Diamond Needle....... 39.95
(or choice of 3 others)

Two Knight KN-820 Speakers. 33.90 CATALOG PRICE......\$193.30

YOU SAVE \$46.35



SYSTEM PRICE

14695

\$8 monthly

- Enjoy 40 Watts of Thrilling Stereo Power at Lowest Cost
- Top Installation Versatility—Simple Future Expansion
- New Knight Cartridge has Professional-Quality Features
- Changer Intermixes All Record Sizes in Any Sequence
- Dual-Cone 12" Speakers Offer Outstanding Fidelity

You can't find better quality at a lower price than with this custom-selected stereo system. You get 40 watts of true high-fidelity power, impressive-looking components that are compact enough to fit nearly anywhere, and the greatest possible installation versatility. What's more, our tops-in-value KN-735 amplifier is fully equipped for easy system expansion—addition of tuner and tape recorder is "plug-in" simple.

This surprisingly low-cost array includes: Knight KN-735 40-Watt Stereo Amplifier; Garrard Autoslim/P4-Speed Changer; two Knight KN-820 12" Dual-Cone Speakers; Knight KN-505X, Shure M3D, Empire 880, or Pickering U38-AT Stereo Cartridge (choice of one); and all necessary cables and plugs.

The Autoslim changer, with two-tone styling, is only 6½" high for almost unlimited installation possibilities: The new KN-505X cartridge has a polished .0006" diamond needle that accurately tracks at a very low pressure for extralong record life. Its wide 15-30,000 cps response gives stereo reproduction of amazing realism. Our KN-820 speakers match the superior performance of the other components in this system. Only 4" deep, they easily mount in walls or shallow enclosures. Shpg. wt., 38 lbs.

22 HF 105-J. Specify Choice of Cartridge.....ONLY 146.95

ABOVE WITH ENCLOSURES AND CHANGER BASE

Save \$57.74! Includes all of the components of the system above, plus a pair of famous-for-value Knight KN-1285 speaker enclosures, plus a wood base for the Garrard changer. Elegantly styled, the compact enclosures have an unobtrusive modern look that blends well with almost all surroundings. (Fully described elsewhere in this section.) Shpg. wt., 104 lbs.

22 HF 106-J. Oiled Walnut. \$11 Monthly. ONLY 209.95
22 HF 113-J. Mahogany. \$11 Monthly. ONLY 209.95



HI-FIDELITY SPEAKER SYSTEMS

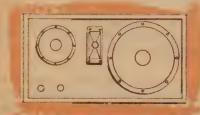






Deluxe 3-Way Shelf-Type Speaker System

PERFECTLY INTEGRATED COMPONENTS



Woofer: 12" with 11/2-lb. ceramic magnet. Flux density, 12,000 gauss; 2" voice coil with cloth cone support. Response 25-800 cps.

Mid-Range: 5" cone, with 6.8 oz. Alnico V magnet. Flux density, 12,500 gauss. 34" voice coil—foam support. Response 800-5,000 cps.

Tweeter: 180° dispersion horn, response to 20,000 cps. 3.16 oz. Alnico V magnet. 1" voice coil.

Crossover: 800 and 5000 cps with level controls for each range.

Capacity: 30 watts. Impedance: 8 ohms.

NEW! A TRIUMPH IN AUDIO REPRODUCTION

Only

- 12" Woofer For Magnificent, Life-Like Bass Response
- 5" Mid-Range Speaker For Outstanding Clarity
- High-Frequency Compression Tweeter For Sparkling Treble to Beyond the Audio Range

\$5 monthly

Wide-Range Response—25 to 20,000 cps

Distinctive appearance and smooth performance characterize the new KN-23 Deluxe 3-Way Speaker System. Solidly constructed of 3/4" hardwood for r markable durability and resonance-free tonal quality, it has expertly finished edges and crafted mitred corners. Handsome exterior features the fine genuine walnut furniture veneer—oil finished for lasting beauty.

The exclusive 12" woofer incorporates a high-compliance cone that reproduce the lowest tones of orchestral passages and organs with such magnifice realism that it must be heard to be believed. The important mid-range from quencies are covered with a sparkling clarity that provides a true sense "presence" in music reproduction. Mid-range and tweeter units reproduc frequencies beyond the audible limit, and disperse sound over a wide area

Two level controls, front-mounted on a walnut panel, provide optimum corvenience in setting "presence" and "brilliance" characteristics. Matchin grille cloth is enhanced by a solid walnut frame and ribs that balance th styling. Each unit is precision assembled and individually tuned and tested Size, 131/8x243/4x12". Made in U.S. Shpg. wt., 60 lbs. 95 DZ 215-J. \$5 Monthly ONLY 99.9



BUY A PAIR FOR STEREO AND SAVE! Pocket savings of \$10.00! For a really thrilling new listening experience, use two KN-2300's for sterec 95 DZ 215-J. \$10 Monthly. TWO FOR ONLY 189.9

Order Your Knight Speakers On Allied's Credit Fund Plan



HIGH-FIDELITY SPEAKER SYSTEMS

Fit beautifully n wall recesses and niches . . .

... or anywhere you would hang a picture ...

and on tables, any type of rack or headboard . . .



Beauty And Fabulous Sound—At Lowest Cost

"SLENDER STYLE" 2-WAY SPEAKER SYSTEM

Only

- 3 Speakers-10" Woofer and 2-31/2" **Direct-Radiator Tweeters**
- Amazingly Slender—Only 6½" Deep
- R-C Crossover With Level Control

\$5 monthly Bass Response Descends to 35 Cps A brilliant new look in ultra-thin styling, designed to fit anywhere—this is the ingenious KN-281. Delivers superb reproduction of sound while using far less space. Uses a

10" high-compliance woofer with 34" cone excursion; two 3\%" direct-radiator tweeters with enclosed backs; acoustically transparent natural cane grille cloth; and a precision duct. The enclosure, inner components and duct are critically tuned, like a fine musical instrument, for lowest distortion and uniform response. Size, 131/2x

233/4x61/2". Oiled walnut. Made in U.S. 24 lbs.

95 DU 265-J. \$5 MonthlyEACH, ONLY 49.95 SAVE \$5.001 TWO FOR ONLY 94.90 95 DU 266-J. Unfinished Model KN-281. In smooth-sanded, ready-to-finish 3/4" gum hardwood . EACH, ONLY 44.95

----SPECIFICATIONS

Frequency Response: 35-15,000 cps.

Crossover: 2000 cps, R-C type; level control.

Capacity: 30 watts, program material.

Impedence: 8 ohms.

Woofer Magnet: 1/2 lb. Alnico V.

HIGH-COMPLIANCE 3-WAY SPEAKER SYSTEM

Only

\$5 monthly

- 4 Speakers—10" Woofer, 2—3½" Mid-Range Radiators, UHF Tweeter
- Treble Extends to 17,000 Cps
- Requires Only a 10-Watt Input for Room-Filling Sound

Designed to delight the critical hi-fi connoisseur, the KN-2200 achieves new goals in neat, space-saving design and rich sound . . . at modest cost! Blue-ribbon components include: 10" high-compliance woofer with 3/4" cone excursion; two 31/2" special-design, mid-range radiators with enclosed backs; exclusive hemispherical ultra-high-frequency tweeter with dome construction for uniform distribution of highs. Enclosure is precisely tuned to match speakers. Size, 13½x23¾x11¾. Oiled walnut with natural cane grille cloth. Made in U.S. 38 lbs.

95 DU 267-J. \$5 MonthlyEACH, ONLY 79.95 SAVE \$10.001 TWO FOR ONLY 149.90

95 DU 268-J. Unfinished Model KN-2200. Insmooth-sanded, ready-to-finish 3/4" gum hardwood . EACH, ONLY 69.95

-SPECIFICATIONS-

Frequency Response: 30-17,000 cps.

Crossover: 2 kc, 10 kc (L-C); balance cont.

Capacity: 40 watts, program material.

Impedance: 8 ohms.

Woofer Magnet: 1 lb., Alnico V.



COMPARE THESE FEATURES

woofer cone.

High-Compliance 12"

4.6-lb. Ceramic Magnet

Whizzer Cone gives extra-clean mid-range.

Compression Tweeter

for superior damping.

for extended highs.

New KN-612HC 12" 3-Way Speaker

Only

- Improved Version of the Famous KN-
- Sensational Bass in Any Enclosure
- Now Includes Mid-Range Whizzer Cone

\$5 monthly • Exceptional Power Handling Capacity

A marvelous engineering accomplishment, the new KN-612HC actually surpasses the high-fidelity performance of its respected predecessor, the popular KN-600HC. Convincing evidence of superior Knight design, this superb speaker gives you extra-solid, distortion-free bass that simply must be heard to be believed. What's more, you get balanced mid-range and highs, too. No other speaker at this price can even come close to duplicating the sound quality of this magnificent performer.

Enclosure size and type of loading are not critical with the KN-612HC. Its super-efficient 4.6-lb. ceramic magnet, and 12" high-compliance woofer with unusually low resonance frequency provide outstanding bass in any enclosure. The new whizzer cone, with a mechanical crossover at 2000 cps, lends added "presence" to the mid-range for true "you are there" concert-hall realism. A built-in electrical crossover smoothly channels all frequencies above 3500 cps to the compression-type tweeter for a treble response that extends all the way up to 19,000 cps!

The precision copper-ribbon voice coil, and other moving elements, are maintained in perfect alignment by the rigid cast-alloy frame. A calibrated brilliance control on a 36" cable lets you precisely adjust treble response to suit room acoustics or personal taste. Has convenient screw-type binding post terminals. Overall speaker depth is $7\frac{1}{2}$. Made in U.S. Shpg. wt., 32 lbs.

95 DU 201-J. \$5 Monthly.....ONLY 59.95

-SPECIFICATIONS -

Free-Air Resonance: 35-45 cycles per second. Overall Frequency Response: 30 to 19,000 cps.

Rated Power Capacity: 50 watts.

Impedance: 8 ohms.



All-New KN-615HC 15" 3-Way Speaker

\$5 monthly

- Deluxe Version of Our KN-612HC
- Bass Response Descends Down to 20 Cps
- Lets You Actually Feel the Lowest Tones of Mighty Pipe Organs

The newly engineered KN-615HC is our "Big One"-the speaker to choose if you want the absolute maximum in low-frequency reproduction, plus natural mid-range and sparkling high-frequency response. This audiophile's dream employs all the fine features of the KN-612HC above, with an immense 15" woofer cone that gives you the most authentic bass possible-in any type of enclosure. Reproduction is so clean, so pure that you can actually feel giant pipe organs hit their lowest frequencies. Has mechanical and electrical crossovers at 2000 and 3500 cps, respectively. Free-air resonance is 25-35 cps. Overall frequency response is 20 to 19,000 cps. Impedance, 8 ohms. Speaker depth is 91/8". Made in U.S. Shpg. wt., 38 lbs. 95 DU 202-J. \$5 Monthly.....ONLY 89.95

Knight Components are Guaranteed for One Year

amous for Smooth, Natural Sound & KNIGHT



HI-FI SPEAKERS





KN-800A 12" 3-Way High-Fidelity Speaker Our Best Seller . . . Your Best Buy at This Price

Only \$3995

\$5 monthly

THRILL TO SUPERB HI-FI FROM THIS UNIVERSAL FAVORITE

Features a Reliable, Tried-and-Proven Design Precisely Balanced Bass, Mid-Range and Treble High Efficiency-Performs Beautifully in Any **Enclosure With Any Hi-Fi Amplifier** Manufactured Under Stringent Quality Controls Rigid Cast Frame Maintains Structural Stability Smooth Response from 35 to 15,000 Cps

-SPECIFICATIONS -

Free-Air Resonance: 50 cycles per second. Overall Frequency Response: 35 to 15,000 cps.

Magnet: Ceramic; 1% pounds.

Rated Power Capacity: 25 watts of program ma-

terial.

Impedance: 16 ohms.

Crossover Frequencies: 2000 and 3500 cps.

Recognized by audiophiles around the world for its high efficiency and excellent high-fidelity performance! The KN-800A's proven three-element design gives you sound that cannot be equaled by other speakers at its price. What's more, this speaker gives you outstanding reproduction in any enclosure—use it with horn, reflex or shelf types-and performs marvelously with any high fidelity amplifier, even low-power units.

The three sound-radiating elements of the KN-800A-a 12" bass cone, axially mounted mid-range cone, and diffraction-horn tweeter-have two crossovers for nearly distortionless audio. A mechanical crossover at 2000 cps separates bass and mid-range units, and a capacitor-type crossover at 3500 cps gives a smooth transition to the high frequencies. As a result, the sound you hear is an almostperfect blend without audio peaks or breaks.

The bass and mid-range cones are driven by a specialdesign ceramic magnet that develops a powerful, highly concentrated flux for solid, distinct bass. The tweeter has a separate horn and driver for wide dispersion of velvety "highs." A tweeter-level control on a 36" cable permits adjusting treble response to any desired volume. Screwtype binding terminals afford easy connection of speaker wire. Speaker depth is 8". All specs are lab-verified. Made in U.S. Shpg. wt., 12 lbs.

95 DX 250-J. \$5 Monthly.....ONLY 39.95



HI-FI SPEAKERS

NEW Budget-Priced 12" 3-Way Hi-Fi Speaker



NOW . . . all the benefits of tre 3-way design at rock-bottom co



Rigid Die-Cast Fran Securely Holds / Moving Elements Precise Alignment

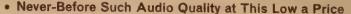
13-Ounce Magnet Ceramic Type f Higher Efficiency a **Better Bass**

Edgewise-Wound Copper-Ribbon Voi Coil Assures Lowe Distortion

Compression-Ty VHF Tweeter Has Bui in Electrical Crossov and a Level Control a 36" Cable



OUR LOWEST-PRICED 3-WAY 12" SPEAKER



- 3 Elements Provide Smooth Response From 40-18,000 Cps
- Built-In Crossovers—Comes With Tweeter Level Control
- Only 5½" Deep for Convenient Custom Mounting

The all-new Knight KN-830 incorporates the latest developments in acous engineering to introduce a new level of performance to speakers in the popu price range. It includes many of the features of the most expensive 3-w speakers, yet is offered to you at a price far below that of many 2-way uni Genuine 3-element construction, 2 built-in crossovers, and a high-efficien ceramic magnet help to provide an authentic, low-distortion frequency is sponse that extends all the way from 40 to 18,000 cps. Truly, the KN-830 is enviable accomplishment in speaker design!

A heavy die-cast frame and fiberglas coil form keep the edgewise-wound voi coil in precision alignment for years and years of faithful service. In addition the long-throw coil design greatly reduces distortion, especially at high listering levels—where low distortion figures are a must! The 12" bass cone carefully decoupled, by a mechanical crossover, from the mid-range cone that each unit acts independently—there is no compromise in design—ye enjoy powerful bass reproduction, plus a crystal-clear mid-range for an exc ing feeling of "presence".

The very-high frequency (VHF) driver gives a uniform distribution of highs excellent treble reproduction in every part of the room—a vital characteris for proper balance in stereo music systems. A high-frequency level conti permits adjusting tweeter volume level to suit room acoustics. Binding po terminals. Made in U.S. Shpg. wt., 91/4 lbs. 95 DX 204-J. \$5 Monthly.....



TRUE 3-WAY DESIGN 12" WOOFER CONE MID-RANGE CONE

KN-830 SPECIFICATIONS

Free-Air Resonance: 60 cps.

Overall Frequency Response:

40 to 18,000 cps.

Power Capacity: 20 watts.

Magnet Weight: 13 oz.

Magnet Material: Ceramic.

Crossover Frequencies: Mechanical at 2000 cps;

electrical at 4000 cps.

Voice Coil: 2", edgwise wound.

Flux Density: 11,500 gauss.

EIA Sensitivity: 47 db.

Impedance: 8 ohms.

Speaker Depth: 51/2".



Efficient Ceramic Magnet • Dual-Cone Design with Woofer for Maximum Bass and Smaller Cone for Clear Mid-Range and Treble • Die-Cast Frame • Edgewise-wound 2" Copper-Ribbon Voice Coil • Built-In Mechanical Crossover • Extra-Shallow Depth for Custom Mounting

A real favorite among economy-conscious hi-fi enthusiasts, the KN-820 is priced so low that you can purchase two of them for less than you'd pay for a single speaker of comparable quality. Carefully manufactured to meet our own unyielding specifications, the KN-820 gives you more for your money in every way. Compare it any way you choose—it is unquestionably the finest high-fidelity speaker value available in its price class.

Wide-range audio reproduction, without shrillness, is assured by its proven dual-cone design. The big 12" woofer delivers surprisingly solid bass, and the small mid-range cone efficiently handles the important mid-frequencies and the upper audio range. A mechanical crossover channels all frequencies above 4500 cps to the mid-range radiator. Another highlight is the extremely shallow frame design of the "820"—it's only 4" deep—permits it to be easily custom-installed in walls, in "thin-line" enclosures, consoles, etc. Also an excellent unit for wall-baffle extension-speaker use.

Other "big features" are: edgewise-wound copper ribbon 2" voice coil assembly; perfectly molded fiberglas coil form sealed against dust for outstanding durability; a ring-type \(^3\)4-pound ceramic magnet; and a rigid die-cast zinc frame for permanent centering of all sound-reproducing elements—maintains low distortion levels for the entire lifetime of the speaker. Has convenient binding post terminals for fast and simple connection to any amplifier. Made in U.S. Shpg. wt., 6 lbs.

95 DX 203-J. ONLY 16.95

Ring-type ceramic magnet for efficient concentration of flux density in speaker air gap, low leakage and great strength.

KN-820 SPECIFICATIONS

Free-Air Resonance: 65 cps.

Overall Frequency Response:

40 to 13,000 cps.

Power Capacity: 20 watts.

Magnet Weight: 3/4-lb

Magnet Material: Ceramic.

Crossover Frequency: 4500

cps (mechanical).

VoiceCoil:2";edgewise-wound

Flux Density: 10,500 gauss.

EIA Sensitivity: 43 db.

Impedance: 8 ohms.

Speaker Depth: 4".



-SPECIFICATIONS-

Overall Frequency Response: 40 to 14,000 cps.

Capacity: 30 watts of program material.

Flux Density: 10,000 gauss.

Free Air Resonance: 45 cps.

Impedance: 16 ohms. Speaker Depth: 71/2".

YOU PAY LESS for Knight Speakers Because They Are Our Own Products and Are Sold to You DIRECT.

Only

\$5 monthly

- 12" Woofer Cone With Cloth Suspension for Deep Bas
- Mid-Range Propagator Cone Develops Superb Highs
- Double-Power 1-lb., 6-oz. Indox Ceramic Magnet
- Heavy Cast Frame Keeps Cone and Voice Coil Rigid
- Has 2" Aluminum-Ribbon Voice Coil-Fiberglas Fore

Designed without compromise to give you the most for your money—to give yo full, rich bass sound without distortion, and crisp, clean highs without annoy ing shrillness-this is the economy-priced KN-1200 speaker. It has many of th features and specifications of speakers costing up to twice its modest price heavy cast frame to keep speaker cone and delicate voice coil in perfectly cer tered position; two cones to divide sound into best bass response and most eff cient high-frequency propagation; heavy, ring-type Indox magnet for highest power at lowest distortion; edgewise-wound, 2" aluminum-ribbon voice coil is precisely made and wound on fiberglas coil form into a rigid assembly—main tains its shape for the life of the speaker; no interaction of elements to caus distortion. Has standard-spaced holes for mounting studs, plus solderles binding posts for connections. Made in U.S. 131/2 lbs.

95 DX 205-J. \$5 Monthly.....ONLY 29.9

HIGH-FREQUENCY PACKAGE Crossover /L-Pad

COMBINATION OFFER. Save \$2.95—buy the KN-1200 above, with this high-frequency package. 95 DU 950-2J. BOTH FOR ONLY 44.95

H-F Unit

KN-425 Tweeter, Crossover and L-Pat

Only

- Mounts Inside Virtually Any Enclosure
- Level Control for Precise Adjustment
- For Single-Cone or 2-Way Speakers

There's no finer, easier way to add brilliant "highs" to your present single-cone speaker or 2-way speaker system than with the superb KN-425 tweeter package. It offers su perior performance, backed up by specially designed, top notch components. Includes: VHF tweeter, L-C type cross over network in sealed housing, and integral L-pad leve control. Tweeter employs a flanged, cast exponential horr with diffraction principle to achieve wide dispersion of highs. Response: 3000 to 18,000 cps. Crossover: 3500 cps Dispersion: 180°. Power Capacity: 25 watts (in conjunc tion with woofer). Impedance: 8-16 ohms. Magnet: 6 oz Alnico V. Made in U.S. Shpg. wt., 3 lbs.



Get More for Your Money With Knight Hi-Fi Speakers

NEW! Deluxe-Quality 8" Coax Speaker

Only

5 monthly

· One-Lb. Magnet for Distortion-Free Sound Reproduction

 Compression-Type Tweeter for Best Highs—Without Shrillness

Safely Handles Up to 20 Watts of

Program Power

New, superb 8" coax speaker reproduces full dynamic ange. Features electrically and acoustically independent voofer and tweeter. Woofer has 1-lb. ceramic magnet, 11/2" roice coil for unusually powerful bass in any enclosure; pore-fire compression-type tweeter produces silky smooth nighs without harshness. Response: 40 to 15,000 cps. Capacity: 20 watts. Resonance: 55 cps. Crossover: capacior-type, 3000 cycles. Depth: 51/8". Impedance: 8 ohms. Binding post terminals. Made in U.S. 6 lbs.

35 DX 253-J. \$5 Monthly.....ONLY 24.95

Economy 8" Wide-Range Hi-Fi Speaker

Only

- Great for Economy Music Systems or **Extension Speaker Use**
- . Solid, Die-Cast Frame for Rigidity

Designed to give you fine sound at the lowest cost, the KN-809 provides mellow bass response and clear midrange plus surprisingly authentic highs. Has a 10-oz. ceramic magnet, die-cast frame, and soft-suspension, hyperbolic woofer cone. Use it for low-cost music systems; as an extension speaker; or as a high-quality mid-range speaker in two or three-way speaker systems, etc. Its small size, only 35/10" deep, makes it fine for use in a wide variety of space-saving enclosures. Excellent choice for background music systems with wall or ceiling installation. Response: 50 to 12,000 cps. Capacity: 15 watts of program material. Depth: 35/16". Impedance: 8 ohms. Binding post terminals. Made in U.S. Shpg. wt., 3 lbs.

95 DX 251-J.....ONLY 9.95

Budget-Priced Popular 8" Coax Speaker

Only

 Separate Woofer and Direct-Radiator **Tweeter Cones**

Rated At 15 Watts Program Material

Convenient Binding Post Terminals

Capacitor-Type Crossover Network

Smooth, natural sound for pleasing music or voice reproduction highlights the famous KN-819 speaker. Has true coaxial design; 10-oz. ceramic magnet for rich bass; directradiator tweeter for mid-range and highs with full realism; sturdy, die-cast frame for perfect centering of speaker elements; binding post terminals. Response: 50 to 14,000 cps. Crossover: capacitor-type, 3000 cycles. Capacity: 15 watts of program material. Impedance: 16 ohms. Mounting Depth: 35%. Made in U.S. Shpg. wt., 4 lbs.





Low-Cost Shelf-Size Speaker Enclosures

KN-1284 8" COMPACT SPEAKER ENCLOSURE

Only

\$5 monthly

- Small Enough for Wall, Shelf or Floor -Large Enough for "Big Sound"
- Solid ³/₄" Paneling for Clear Bass
 Oiled Walnut Finish on Four Sides

The best looking, best performing shelf-size enclosure available at this low price. It's a smart choice for lowestcost stereo, budget-priced monophonic systems, and for high-quality extension-speaker use. Nicely finished on four sides, the KN-1284 is usable in highboy or lowboy positions . . . and measuring just 10x20x9", it unobtrusively nestles just about anywhere.

Heavy 3/4" all-wood paneling permits pleasing bass reproduction that puts a zestful "solid sound" into music. Internal design not only accommodates any 8" speaker, but greatly adds to its performance. You enjoy audio quality that's unexpected at such low cost.

The expertly crafted KN-1284 sports a handsome oiled walnut finish and a matching beige grille cloth. Includes fiberglas acoustic lining, and terminal strip on back board. Made in U.S. Shpg. wt., 15 lbs.

95 DU 475-J. \$5 Monthly.....ONLY 19.95

KN-1284/KN-829 PACKAGE



Save \$4.95 by purchasing these two components as a complete speaker system. Consists of the KN-1284 and Knight's new widerange 8" coaxial speaker, the KN-829 (described earlier in this section). Frequency response, 45-15,000 cps. Shpg. wt., 20 lbs.

20DU360-2J. BOTH ONLY 39.95

KN-128612" VENTED-PORTSPEAKER ENCLOSUR

Only

\$5 monthly

- Vented-Port Design and 3/4" Wood Paneling for Deep, Clean Bass Fiberglas Lining—Mitered Corners
- Oiled Walnut Finish on Four Sides

An economical speaker enclosure offering a number of deluxe construction details, space-saving size, and very pleasing appearance. Acoustically engineered for 12" speakers, including most 2 and 3-way types, th KN-1286 is the inevitable choice for cost-conscious hifans desiring a compact enclosure, but still demanding first-rate audio reproduction.

The KN-1286 features a custom-fitted fiberglas acoustilining, heavy 3/4" paneling, and vented-port cabine design for extended-range natural-sounding bass. Also has expertly crafted mitered corners, and a matched grille cloth that allows free passage of highs.

All four sides are beautifully finished in an oiled walnu veneer. Back board has a wired terminal strip for reall fast, easy hook-up. Only 143/4x24x12" deep. Made in U.S Shpg. wt., 30 lbs.

95 DU 531-J. \$5 Monthly.....ONLY 29.9!



KN-1286/KN-830 PACKAGE

Save \$6.95 off catalog prices by purchasing the KN-1286 and Knight's KN-830 12" 3-way speake together. This great team delivers amazing sound quality at a ven moderate cost. Response, 40 18,000 cps. (KN-830 listed earlier in this section). 40 lbs.

20DU361-2J. BOTH ONLY 49.95

You Get More for Your Money at Allied



Professional Components for Added Hi-Fi Enjoyment

NEW KN-845 STEREO HI-FI HEADSET

Only

\$5 monthly

• 31/2" Cone-Type Dynamic Transducers Give Full-Range 25-16,000 Response

Built for Comfort to the "Nth Degree"

Works With Any Amplifier

The KN-845 professional headset brings you fabulous stereo realism that simply can't be duplicated by regular speaker systems. Since each earcup is actually a precision, 31/2" dynamic transducer in an acoustic chamber, you enjoy the absolute maximum in channel separation, perfect balance, freedom from external noise . . . and a crisp 25-16,000 cps response! You are surrounded by "living sound" that puts you in "front row center."

Lightweight design and soft, sponge-rubber-padded earcups and headband permit long periods of comfortable listening. Adjusts to fit anyone. Earcushions are removable for cleaning. Has beautiful medium-blue leatherette covering on earpieces and headband. With 8' cord, phone plug, and phone jack mounted on "L" bracket for handy hook-up to any amplifier. Impedance, 4-16 ohms. Made in U.S.A Shpg. wt., 21/2 lbs.

95 DX 825-J. \$5 Monthly.....ONLY 19.95

KN-846 REMOTE CONTROL UNIT FOR ABOVE

Chairside volume control for one or two KN-845s. Two controls independently adjust volume of two headsets. Listen with or without speakers. Less cables. 23/4x2x4". Made in U.S. 1½ lbs.

95 D 826-J.....ONLY 7.95

48 W 021 5-Conductor Cable For Above. Per Foot, .. ONLY 31/2c



Enjoy Handy Chair-side Control

KN-702 REVERBERATION SYSTEM

Only

\$5 monthly

- Adds New Depth and Beauty to All Recordings and FM-AM Broad-
- Lets You Control the Acoustics • For Stereo or Mono Amplifiers

Much more than a novelty or a simple echo device, the KN-702 is an extremely valuable hi-fi accessory. It injects new beauty and depth into old lackluster records, imparts a vibrant, professional quality to recordings you've made at home . . . and converts "dead" rooms into spacious, acoustically perfect music halls.

All this is achieved by electro-mechanically simulating the special sound-reflecting panels used in recording studios. Output control lets you adjust for just the amount of "reflection" necessary to give the acoustic effect you want. Fidelity is not affected.

Connects to output terminals of any stereo or monophonic amplifier. Requires separate 8 or 16-ohm speaker (optional). Consists of a Hammond Type 4 Reverberator Unit and Amplifier Unit (25/4x93/4x8".) For 110-120 v., 50-60 cycle AC. Made in U.S.A. 8 lbs.

95 DU 067-J. \$5 Monthly..... ONLY 49.95

LINCOLN L-100 SPEAKER SYSTEM

Perfect for use with the KN-702 above. Ready to use, it's equipped with a 25' extension cable and a level control. 8x12x6" enclosure houses a quality 5x7" speaker. Has cane grille cloth and simulated walnut finish. 8 ohms. 5 lbs.

95 DX 350-J....ONLY 9.95



Ideal for Use With KN-702 Reverb Unit





Custom-Crafted Contemporary Furniture Group

COMPLETE 3-PC. MATCHED ENSEMBLE

In Kit Form

\$14995

\$8 monthly

Assembled

\$17995

\$9 monthly

Beautiful Low-Cost

Furniture for Your Hi-Fi

Components . . . Enhances

Any Room or Setting

Any Room of Setting

Kit or Assembled

KIT VERSION. A graceful and dignified grouping of slender-styled finefurniture cabinetry. Simple but elegant, the KN-1402K equipment cabinet in the center, houses your tuner, amplifier, changer or turntable, and recordings. A pair of trim, carefully matched KN-1267K enclosures accept any 12" or 15" speakers, and include adapter boards for accommodating tweeter components. All three furniture pieces are marvelously easy to assemble—you only need a screwdriver! All holes are pre-drilled, all parts are precision-cut and carefully pre-fitted; and all outer surfaces boast beautiful oiled walnut veneers, pre-finished by experts.

The KN-1402K offers carefully-fitted front-opening doors, and rear-panel ventilation to keep components cool (supplied less phono drawer; purchase of a sliding-drawer base specifically made for your turntable or changer is recommended). The KN-1267Ks have high-fashion grille cloth, mitered, pre-assembled front moldings, and acoustic insulation. In oiled walnut only. Overall ensemble size: 31½" high, 75½" wide, and 19" deep. Tops are cut from same piece of wood to assure matching grain. Shpg. wt., 159 lbs

95 DZ 411-3J. 3-Pc. Ensemble (KN-1402K, 2—KN-1267K). ONLY 149.95

PURCHASED SEPARATELY-



EQUIPMENT CABINET KIT

Compartment Sizes:

A-Amplifier-Tuner: 8x35x15"

B-Records, Etc.: 14x15 3/4x16 3/4"

C-Changer/T-table: 14x183/4x163/4"

MODEL KN-1402K. Knight's lowestpriced equipment cabinet kit. Less phono drawer. Overall size: 31 ½x36½x 19". Oiled walnut only. 65 lbs.

95 DZ 414-J. \$5 Monthly. ONLY 59.95

95 DZ 403-J. Model KN-1402. As above, but assembled...ONLY 74.95

SPEAKER ENCLOSURE KIT

MODEL KN-1267K. Performs beautifully with any 12" or 15" speaker. Has terminal strip installed, inside leads, etc. 31 ½x19 ½x19". 47 lbs.

95 DZ 417-J. \$5 Monthly. ONLY 46.95

95 DZ 408-J. Model KN-1267. As above, but assembled ... ONLY 54.95





HI-FI FURNITURE



Tastefully Styled Danish-Modern Furniture Group

COMPLETE 3-PC. MATCHED ENSEMBLE

In Kit Form

\$10 monthly

Assembled

\$12 monthly

All 3 pieces in this ensemble have tops cut from the same piece of wood ... preserves the beauty of the matching grain.

KIT VERSION. A classic in furniture styles, Danish Modern cabinetry combines functional design with appealing beauty . . . and our Knight ensemble typifies this style at its best. The handsome KN-1500K equipment cabinet even has a rich walnut interior to highlight your components-it's tuner-amplifier section has an optional panel for custom mounting. The deluxe KN-1275K speaker enclosures accommodate any 12" or 15" speakers, and have 21/2x12" tweeter boards for 2 or 3-way system components. All three pieces feature top panels cut from the same piece of wood to preserve the natural beauty of the matching

A screwdriver and one evening's time is all you need to assemble one of these fine furniture cabinets. Outer surfaces are expertly pre-finished in oiled walnut, holes are pre-drilled, all parts are precision cut and pre-fitted. (KN-1500K is supplied less phono drawer; we recommend using a base made for the changer of your choice.) With easy instructions. In oiled walnut only. Overall ensemble size: 33" high, 78" wide, and 201/4" deep. Shpg. wt., 220 lbs. 95 DZ 429-3J. 3-Pc. Ensemble (KN-1500K, 2—KN-1275K).ONLY 194.95

ASSEMBLED VERSION. Identical to above, but factory assembled. 95 DZ 426-3J. \$12 Monthly.....ONLY 239.95

PURCHASED SEPARATELY



EQUIPMENT CABINET KIT

Compartment Sizes:

A-Amplifier-Tuner: 8x341/2x153/4"

B-Changer/T-table: 151/4x19x181/4"

C-Records, Etc.: 151/4x143/4x181/4"

MODEL KN-1500K. One of our most popular cabinets. Swing-out front doors. Less phono drawer. 33x36x 20 1/4". Oiled walnut only. 80 lbs.

95 DZ 430-J. \$5 Monthly..ONLY 79.95

95 DZ 427-J. Model KN-1500. As above, but assembled. .. ONLY 94.95

SPEAKER ENCLOSURE KIT

MODEL KN-1275K. Acoustically correct for any 12" or 15" speaker. Has terminal strip, acoustic insulation. 33x 21x201/4". 70 lbs.

95 DZ 431-J. \$5 Monthly.ONLY 59.95

95 DZ 428-J. Model KN-1275. As above, but assembled ... ONLY 74.95





Popular-Priced Contemporary Furniture Group

COMPLETE 3-PC. MATCHED ENSEMBLE

\$144⁹⁵

\$8 monthly

Beautifully Fits into Any Contemporary Decor

- Houses Amplifier, Tuner, Changer, Records or Accessories, Plus 12" or 8" Speakers
- Oiled Walnut Finish—Boucle-Weave Grille Cloths—Factory Assembled

Neatly styled and functionally designed . . . a wise choice for anyone desiring a low-cost ensemble that will complement any contemporary decor. All three pieces are carefully matched, and all are exactly 16 1/4" deep so that you can attractively group them directly together—or place the speaker enclosures on opposite sides of your room for increased channel separation. All units have fine-crafted oiled walnut veneers and tapering, brass-tipped legs.

The KN-1900 equipment cabinet features a handy "lift-top" record-changer compartment that eliminates most stooping and bending while you're loading or unloading records. Tuner-amplifier compartment (sections A and C in diagram at right) has adjustable center shelf for accommodating components of any size—or removes altogether for extra storage space. Rear-panel ventilation keeps all components operating within a proper temperature range.

The KN-1901 speaker enclosures boast a ducted-port bass-reflex acoustical design for bringing out the utmost bass performance from all speakers, either 8" or 12". Include screw-type terminal strips on back board for easy hook-up. Oiled walnut only. Overall ensemble size: 28½x71½x16½" deep. Made in U.S. Shpg. wt., 135 lbs.

95 DZ 500-3J. \$8 Monthly. KN-1900 and 2 KN-1901s....ONLY 144.95

UNITS SEPARATELY



EQUIPMENT CABINET Inside Dimensions: A.C-213/4x161/4x151/4"D.

B-167/8"W.; 141/8" D.

D-Storage: 121/4x167/4x151/4" Deep.

MODEL KN-1900. A splendid value in a low-cost equipment cabinet. Houses all components except speakers. Tuner-amplifier compartment has two adjustable shelves for maximum versatility. Has convenient lift-top changer section. 28 ½ x36x16 ½ deep. Oiled walnut only. Wt., 65 lbs. 95 DZ 501-J. \$5 monthly.......69.95

1601 4004 00000

KN-1901 SPEAKER ENCLOSURE Smartly styled, the KN-1901's ductedport bass-reflex design enhances the bass performance of all speakers. Takes any 12" speaker, and has an adapter board for 8" units, if preferred. Rich-looking boucle-weavegrille cloth. 28½x17¾x16¼" deep. Oiled walnut only. 35 lbs.

95 DZ 502-J. \$5 monthly 39.95

FOR A BUDGET-PRICED CONTEMPORARY ENSEMBLE...

... choose our new KN-2055
low-cost equipment consolette and
a pair of slim-style KN-1285
speaker enclosures. Enjoy top
convenience . . . modern styling too!







The Last Word in Contemporary Style . . . Chic Drop-Front Door . . . Lowest Cost.







Lowest-Cost Contemporary Hi-Fi Furniture

KN-1285 SPEAKER ENCLOSURE

\$34⁹⁵

\$5 monthly

- Our Lowest-Cost Floor Enclosure
- Accommodates 8" or 12" Speaker
- Rigid 3/4" Plywood Construction
- Walnut or Mahogany Veneer
- Compact-Marvelous for Stereo

Only • Truly Functional Co

\$69⁹⁵

\$5 monthly

- Truly Functional Contemporary Styling—Oiled Walnut Veneer
- Accommodates Tuner, Amplifier, Changer, Stores Records
- Front Door has Magnetic Latches

Strikingly styled speaker enclosure featuring genuine fine furniture veneers... and especially priced to please the thrifty hi-fi fan. Accommodates any 12" speaker, including coaxial or 3-way types; includes an adapter board to permit using an 8" speaker, if preferred.

Sturdily built of solid %" plywood, the "1285" is noted for clean resonance-free performance. Acoustic lining also contributes to bass reproduction and helps prevent harshness in high-frequency range. Tops in looks too, this enclosure's compact dimensions make it fine for use in any room. The trim, graceful lines are enhanced by leg and frame treatment that captures the "light look" sought by today's top decorators. Attractively finished in rich, hardwood veneers.

Back board is equipped with a wired, screw-type terminal strip—speaker hook-up is a snap. Mounting lugs make speaker-mounting equally simple. 30½x19¾x13¾" deep. Made in U.S. Shpg. wt., 30 lbs.

95 DZ 526-J. Oiled Walnut......ONLY 34.95 95 DZ 527-J. Mahogany.....ONLY 34.95 Group your hi-fi components into a striking custom array with this ultra-modern consolette. Priced remarkably low, it gives you the advantages of a console-type unit at minimum cost, space-sparing design, and eliminates the need for mounting of components—just set them into place inside their compartments.

NEW! KN-2055 EQUIPMENT CONSOLETTE

Unusually compact, the KN-2055 houses tuner, amplifier, and record changer with room left over for storing more than 200 LP recordings, or accessories. Cabinet is sturdily supported by solid, extruded columns of brushed aluminum that are 3/16" thick. Handy drop-front door is held snugly shut by magnetic "latches." 3/4" wood paneling boasts a veneer in popular oiled walnut.

Compact sizes (HWD): upper left, $10x16\frac{1}{2}x14\frac{3}{4}$ " (center shelf is vertically adjustable); upper right, $10x17\frac{1}{2}x14\frac{3}{4}$ ". Bottom shelf is $34\frac{1}{4}x12\frac{1}{2}$ " deep; vertical clearance is $13\frac{1}{2}$ ". Overall size, $30\frac{1}{2}x36x16\frac{3}{8}$ ". Shipped knocked down—bottom panels and legs bolt together in just minutes. Made in U.S. Shpg. w., 60 lbs.

95 DZ 525-J. \$5 Monthly.....ONLY 69.95



Our Lowest-Cost 2-Speed Portable Tape Recorder



MAKE OFF-THE-AIR TAPES

Has patch cord for taping direct from radio or TV. Record history-making programs... build up a library of musical selections recorded from FM stations. You'll marvel at the fine tone quality!



SPEECH AND MUSIC TRAINING

The wide response of the KN-4035 beautifully "mirrors" the voice as well as music. Soon pays for itself in everyday usefulness!

\$69⁹⁵

new low price

- 50-10,000 Cps Response For Fine-Quality Sound
- Built-In 6-Watt Amplifier and 5" Speaker
- Interlock Prevents Accidental Tape Erasure
- Accurate Neon-Light Recording Level Indicator
- Single Control for "Play-Idle-Record" Functions

The unbelievably low-priced KN-4035 gives you top-flight circuitry, plus all the controls and important "extras" you need for astonishingly lifelike 2-trace monophonic recordings. No other unit at this price can approach the quality that is built into this great recorder bargain! And it's really easy to operate the little beauty—its controls are designed and arranged to make it the height of simplicity and a genuine pleasure to use. Weighing just 19 lbs., you easily carry this beautiful Horizon Blue and gray portable everywhere you go.

Some outstanding features are: two fingertip-selected speeds of 7½ and 3½ ips; a husky 6-watt audio amplifier coupled to a top-quality 5" speaker for pleasing, natural sound; provision for recording from microphone, radio, TV or phonograph; plus an output jack for playback through a larger, externate speaker. Has fast-forward and rewind controls with a handy lock-in position on rewind—uniform braking on both reels prevents tape stretch or breakage Accepts reels to 7" in diameter, and has a tape guide post to assure always correct alignment of tape.

Deck plate has a tape footage guide. Frequency Response: 50 to 10,000 cps a 7½ ips. Wow and Flutter: less than 0.3% at 7½ ips. Signal-to-Noise Ratio: 40 db Supplied complete with wide-range Knight crystal microphone, 7" take-up reel and a patch cord. Only 8x11%x15" deep. Made in U. S. For 110-120 volts, 60 cycle AC. Shpg. wt., 24 lbs.

95 DU 600-J. \$5 Monthly.....ONLY 69.95



Portable Tape Recorder With Stereo Playback

\$9995

- Records and Plays Monophonically at 2 Speeds
- Plays 4-Track Stereo Tapes Through Any Second Channel—or Through Optional KN-4160
- 6-Watt Amplifier and 2-Way Speaker System
- Tone Control—Neon Recording Level Indicator

Packing a wealth of deluxe features, the big-value KN-4110 gives you 2-track, 2-speed monophonic recording and playback, plus a built-in stereo playback preamplifier. Use this economical portable as a tape deck to play high-fidelity 4-track stereo tapes through your stereo music system, or use the recorder itself as one channel of sound, and any monophonic hi-fi system, TV set or phono as the second-channel. Or, purchase the optional KN-4160 (at right) for a complete, beautifully matched stereo tape player.

The KN-4110 includes a powerful 6-watt amplifier and a built-in 2-way speaker system—boasts a 5" woofer, 4" tweeter and an electrical crossover for sound quality of remarkable fidelity. Tone control adjusts sound for crisp, clear speech or for pleasing, mellow music reproduction. One simple lever selects "Play-Idle-Record" functions. Safety interlock avoids accidental tape erasure. Has neon record-level indicator, fast-forward and lock-in rewind controls. Deck plate has counter numerals to show elapsed tape footage—aids in cuing and editing of your recordings.

Has three outputs: high-Z Channel A; high-Z Channel B; one for an external speaker system. Response: 50-10,000 cps at 7½ ips. Wow and Flutter: below 0.3% at 7½ ips. Speeds: 7½ and 3¾ ips. Signal-to-Noise Ratio: 40 db. With Knight crystal mike, 7" reel of Knight KN-12 "Special Formula" tape, 7" take-up reel, patch cord, output cable for 2nd-channel amplifier. 8x11 ½x15". Made in U. S. For 110-120 v., 60 cycle AC. Shpg. wt., 26 lbs.

95 DU 601-J. \$5 Monthly.....ONLY 99.95



AMPLIFIER-SPEAKER for STEREO PLAYBACK WITH THE KN-4110

MODEL KN-4160. Acoustically and electrically matches the amplifier and speakers in the KN-4110—perfect styling match too! Provides a low-cost second-channel of sound for playback of stereo tapes. Has: volume, tone controls; 6-watt power amplifier; 5" woofer; 4" tweeter; electrical crossover. With 8' audio cable, AC power cord. Blue and gray. 5\(^3\)\(^4\)x11\(^3\)\(^4\)\(^4\)''. Shpg. wt., 6 lbs.

95 DU 602-J.....ONLY 24.95



Low-Cost Complete Stereo Tape Recorder



Make
"Simultrack"
Sound-withSound Tapes





Use as P.A. Amplifier, & Record at the Same Time

Built-In Stereo Playback



\$169⁹⁵

\$9 monthly

- Records and Plays 4-Track Stereo and Monophonic
- Wide-Range Speakers Built Into Each End of Case Provide Excellent Stereo Reproduction
- Convenient Professional-Type Upright Operation

Priced far below comparable units, the bargain-priced KN-4350 makes 4-track stereo and monophonic recordings, and plays back 2 and 4-track stereo and monophonic tapes through its own built-in stereo amplifier and speakers. Also makes "simultrack" recordings—a tremendous feature that allows you to accompany yourself in a duet, add your voice to pre-recorded music, or study language by permitting you to follow an expert's pronounciation—then listen to his and your voice together for comparison purposes. Recorder operates in either a professional upright position, or lying horizontally on its back.

With the KN-4350 you have the deluxe convenience of fast-forward and fast-rewind facilities. A handy selector switch lets you check recording level of either channel by using a single neon indicator—lets you make perfect tapes every time. When switch is set at "P.A." position, one channel of the recorder serves as a public address amplifier, and the other channel monophonically records the program being amplified. Easy to set up, everything fits inside the handsome, vinyl-covered blue and white case.

Allied Guarantees Satisfaction or Your Money Back



Our Finest Stereo Tape Recorder

\$13 monthly

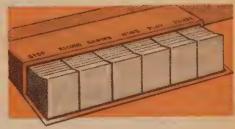
- Records and Plays Both 2 and 4-Track Stereo
- Two Built-In 8-Watt Push-Pull Hi-Fi Amplifiers
- Plays at All 3 Speeds—Has Automatic Shutoff
- Two Built-In 6" High-Fidelity Speakers

Produce your own professional stereo tapes with our precision KN-4310A. The finest portable recorder ever offered at this price, it's light enough to take anywhere to make "on location" tapes with clarity, dynamic range and astonishing stereo realism. And the beautiful case houses a powerful 16-watt push-pull stereo amplifier and twin wide-range 6" speakers for superb stereo or monophonic playback! Wonderfully versatile, the KN-4310A may also be used as a deluxe tape deck in any stereo music system. Provides 2 and 4-track stereo recording and playback, plus 2-track monophonic recording and playback at 3 speeds-1 1/8, 31/4 and 71/2 ips.

Simplified push-button controls and professional-type VU meters assure "first try" recordings of magnificent quality. Fingertip speed selector automatically provides proper equalization for balanced sound. Also has: digital tape counter for fast editing and cuing; solenoid-operated automatic shutoff to stop tape at end of reel; jacks for external speakers; plus high-level inputs and

outputs for use with an external amplifier. Response (record-play cycle): ± 3 db, 50-15,000 cps at $7\frac{1}{2}$ ips; ± 3 db, 50-10,000 cps at 334 ips. Wow and Flutter: less than 0.3% at 71/2 ips. Signal-to-noise ratio: 45 db. Distortion: below 1% at normal output level. With 2 full-range mikes; 2 patch cords for taping directly from TV, radios, etc.; 1200-ft. of KN-15 tape; take-up reel. 95/x18x141/2" Made in U.S. For 110-125 v., 60 cycle AC. Carrying wt., 30 lbs. Shpg. wt., 37 lbs.

95 DU 604-J. \$13 Monthly.....ONLY 249.95



Six Pushbuttons Give You Instant Command of Stop, Record, Rewind, Wind, Play, and Pause Functions





Knight Recorders Give You More - - Cost Less



DELUXE
TAPE EQUIPMENT







CUSTOM CONSTRUCTION

All parts are readily accessible. There are no belts, pulleys or levers. Entire unit is engineered for simplest installation, operation and maintenance.

Deluxe Record / Play Tape Transport

Only · \$12995 \$7 monthly

- Permits Echo Effects, Sound-on-Sound, Add-a-Track, Musical Accompaniment, and More
- Dual-Speed Operation—3¾ and 7½ ips
- 30-16,000 Cps Response at 71/2 ips
- Positive DC Dynamic Braking—No Tape Damage

For genuine high-fidelity performance . . . for a wealth of professional features . . . for deluxe-quality construction to reliably serve you for many years . . . choose the KN-4000. There is no finer tape transport at anywhere near this price! Permits dazzling reproduction of pre-recorded stereo hi-fit tapes. When used with the KN-4002 preamp on the facing page, you can play as well as record any type of 4-track stereo or monophonic tape, and thrill to all sorts of special effects that you create yourself—"echos," self-accompaniment during musical selections with the multiple sound-on-sound recording technique, and much more.

Three heavy-duty 4-pole motors—two direct-drive spooling motors and a capstan motor—precisely control your tapes. Another deluxe feature, DC dynamic braking, permits instant tape stoppage without spillage—even thin-base tapes are completely protected against stretch and breakage. Also featured, professional-type heads for the best possible sound quality. The 3-head arrangement allows monitoring from playback head while recording. Also: accurate digital tape-footage counter, and automatic shutoff when tape runs out.

3 SEPARATE HEADS

7 PUSHBUTTON CONTROLS



CARRYING CASE FOR KN-4000 and KN-4002

Holds Transport and Preamp, Mike, Cable, Etc.

Make tape recordings away from home—carry your Knight Tape Transport and Preamplifier, plus mikes, mike cables, tape, and other accessories in this roomy portable case. Has impressive-looking cream and beige styling to match transport and preamp. Outer covering is scuffproof. Has positive snap-locks. 20x16½x 11½". Shpg. wt., 15 lbs.

95 DU 575-J. \$5 Monthly...ONLY 24.95

FOR CUSTOM TAPING AND UNMATCHED STEREO HI-FI SOUND ...

... make our Knight KN-4000 Tape Transport and KN-4002 Tape Preamp units part of your stereo music system. They're made for each other!



DELUXE TAPE EQUIPMENT





NEW! Professional Stereo Tape Record | Play Preamp



TWIN INDICATORS show the recording-level on each channel—indicate when you are "peaking" at correct level for perfect tapes. Red "Record" safety-beacon shows when preamp is in recording function.



DUAL, CONCENTRIC-TYPE playback-level and record-level controls on each channel give you complete operating flexibility—let you adjust levels independently or simultaneously.



MULTIPLE RECORDINGS and other special effects are easy with the KN-4002 and KN-4000 transport.



ECHO EFFECTS enhance your tapes . . . and it's so easy—no special equipment needed.

\$9995

\$5 monthly

- Custom Engineered to Match the KN-4000 Transport
- Lets You Make Flawless Stereo or Monophonic Tapes
- Separate Dual-Channel Record and Playback Preamps
- Equipped for All Types of Professional Effects
- Tape-Source Switch-DC Filaments on Input Stages

Newly designed to perfectly match the KN-4000 Transport electrically as well as style-wise, this great preamplifier gives you all the controls and features required for stereo or monophonic tape recordings of superlative fidelity... plus countless studio-quality special audio effects. Use it with the 3-head KN-4000 for multiple sound-on-sound recordings, professional "echo chamber" effects, etc. Built for outstanding flexibility in recording and playback, it features concentric controls for adjusting both record and playback levels on each channel individually or simultaneously, and separate equalization for 7½ and 3¾ ips. Also—red-light safety indicator to show when unit is on record function: DC-operated tube filaments on input stages for extremely low hum.

A handy panel switch permits instant comparison of source and tape audio-quality. Individual adjustment for recording bias is provided on each channel. Bias frequency is pre-set to 65 kc. Has green pilot light. Panel is in Desert Beige and Sand Gold with control markings in white and black. With six audio cables. 41/8x151/2x81/4" deep. Less case, below. Made in U.S. For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

95 DU 651-J. \$5 Monthly..... ONLY 99.95

95 DX 652-J. Metal Case for Above. Cordovan Gray. 5 lbs...... ONLY 5.95

---KN-4002 SPECIFICATIONS-

Response (Record-Play Cycle): ± 3 db, 30-16,000 cps at 7% ips; ± 3 db, 30-12,000 cps at 3% ips.

Hum and Noise: -50 db, minimum, on playback.

Input Impedance: Mike, 3.3 megohms; Aux, 100,000 ohms.

Record Sensitivity: Mike, 2 mv for MAX level at 1 kc; Aux, 200 mv.

Output Impedance: Approximately 10,000 ohms.



Save \$19.97 on the cost of components purchased separately. Everything you need to make superior 4-track stereo recordings. Plays back through your stereo music system. Affords a full range of special effects—sound-on-sound, echo effect, add-a-track.

System includes: Knight KN-4000 Tape Transport, Knight KN-4002 Stereo Record/Play Preamp (less case), "Brush" Model BA-206B Stereo Headset, 2 Knight Model KN-4500 Microphones, 3—1200-ft. reels of Knight KN-15 Recording Tape and Tape Accessory Kit (tape splicer, cleaning cloth, 12 tape clips, 30 adhesive labels, tape head cleaner, book on tape editing, 100" roll of splicing tape and tape threader).

The KN-4000 operates at 3¾ and 7½ ips. It has three separate heads and three heavy-duty, 4-pole motors. The KN-4002 has dual, concentric-type playback-level and record-level controls on each channel. (See individual listings elsewhere in the catalog for full descriptions of each system component.) Shpg. wt., 48 lbs.

22 HF 114-J. ONLY 299.95

95 DX 652-J. Metal Case for KN-4002. 5 lbs.... NÉT 5.95

95 DU 575-J. Carrying Case for KN-4000 and KN-4002. (See preceding page.) 20x16½x11½". 15 lbs....NET **24.95**

Save \$19.97 on the cost of components purchased separately. Use this outstanding 4-track tape system to make both stereo and monophonic recordings; play them back through your stereo music system. Full provision for special audio effects. Desert Beige and Sand Gold styling.

System includes: Knight KN-4000 Tape Transport, Knight-Kit KP-70 Stereo Record/Play Preamp in Kit Form (Less case), "Brush" Model BA-206B Stereo Headset, 2 Knight KN-4500 Microphones, 3—1200-ft. reels of Knight KN-15 Recording Tape and Tape Accessory Kit, listed in system at left.

The KN-4000 operates at 3¾ and 7½ ips. It has 3 heads and 3 heavy-duty, 4-pole motors, and incorporates positive DC dynamic braking. The KP-70 has calibrated twin VU meters. (See individual listings elsewhere in the catalog for full descriptions of each system component—KP-70 is listed in Knight-Kit section.) 49 lbs.

22 HF 115-J. ONLY 289.95

22 HF 116-J. Complete System as Above, but with Factory-Assembled Preamp. Save \$25.42.....ONLY 334.50

83 YX 936-J. Metal Case for KP-70. 5 lbs...... NET 4.95

95 DU 575-J. Carrying Case for KN-4000 and KP-70 (See preceding page.) 20x16½x11½". 15 lbs....NET **24.95**

for Outstanding Performance



DELUXE TAPE EQUIPMENT





Optional: Scuff-proof Carrying Case for KN-4440 Deck



\$17995 \$9 monthly

Professional-Quality Stereo Tape Deck

- Built-In Record/Play Preamplifiers
- Precision Digital Tape Counter
- 50-15,000 Cps Response at 71/2 ips
- Extremely Compact—Only 13x13x6 1/4"

Add this magnificent new 2-speed tape deck to your stereo music system—it's priced far below units of comparable quality. Compact and precision-built, it provides you with complete 4-track stereo and monophonic tape facilities. Includes deluxe laminated 4-track record/play head and a double-gap erase head. Built-in stereo record/play preamplifier includes dual VU meters for precise recording level adjustment. Deck is attractively styled in matte beige.

Single sliding lever selects Rewind, Stop, Record/Play, or Fast Forward. Change from 7½ to 3¾ ips at the touch of a button. Digital tape counter for accurate cuing and editing. Controls include Record-Play-Off, Volume 1 and Volume 2 (record and play), Stereo-Mono, Mike-Tape Head. Inputs are mike/tape head 1 and 2, and high-level 1 and 2 (on rear of deck).

Specifications. Speed: $7\frac{1}{2}$ and $3\frac{3}{4}$ ips. Frequency Response: ± 3 db, 50-15,000 cps at $7\frac{1}{2}$ ips; ± 3.5 db, 50-10,000 cps at $3\frac{3}{4}$ ips. Signal-to-Noise Ratio: better than 40 db. Flutter and Wow: less than 0.2% rms. Hum and Noise: 50 db below peak recording level. Bias Oscillator Freq.: 80 kc. Max. Reel Size: $7^{\prime\prime}$.

Deck is perfect for custom installations; can be mounted vertically or horizontally. Size, 13x13x61/4". Requires a 121/2" square cutout. For operation from 110-120 v., 60-cycle AC. Made in U.S. Shpg. wt., 28 lbs.

95 DU 677-J. ONLY 179.95

PACKED WITH FEATURES





Precision VU meters allow proper setting of recording level.



Convenient slider-type function selector.



Digital counter for cuing, editing, locating selections.



Lifetime-Lubricated Hysteresis-Synchronous Motor

Pickup Arm Uses Precision Gimbal Suspension

 Deluxe Magnetic Cartridge Has 15-30,000 Cps Response \$5 monthly

A bargain package that saves you \$42.85 off our catalog prices and offers performance on a par with broadcaststudio turntables. Comprised entirely of professionalquality components, this system is capable of reproducing the full range of sound from your stereophonic records -without discernible distortion. Includes: Knight KN-1015 331/3-rpm Turntable with Oiled Walnut Base; Knight KN-1020 Pickup Arm; choice of Knight KN-505X, Empire 880, Pickering U38AT, or Shure M3D Cartridge.

KN-1015 331/3 RPM TURNTABLE ONLY

Studio-Quality Specifications

 12" Solid Cast-Aluminum Table Ribbed Rubber Turntable Mat

\$5 monthly * Efficient Belt-Drive Design

Compares with the costliest of record-playing equipment. Ultra-reliable hysteresis-synchronous motor drives turntable precisely at 331/3 rpm regardless of fluctuations in line-voltage. Has hermetically sealed lifetime-lubricated motor bearings. Belt drive, adjustable for optimum tension and minimum noise, and a solid, cast-aluminum lathe-turned 12" table give you reproduction free of rumble and distortion. Turntable shaft is supported by a ball-bearing system allowing almost friction-free motion. Other features include a ribbed rubber mat to protect your records, and a built-in speed-checking strobe. Noise: 57 db below average recording level. Wow & Flutter: less than 0.15%. Less base (below) and arm (right).

The turntable features a hysteresis-synchronous motor that is unaffected by line-voltage variations. Deluxe arm guarantees precise, balanced tracking, and the KN-505X boasts a 15-30,000 cps response and more than 25 db of channel separation. Wood base is pre-drilled for arm. Cartridge comes pre-installed in plug-in head. With audio cables and solder-lug terminal strip. 81/2x21x13". For 110-120 v., 60 cycle AC. 28 lbs.

22 HF 117-3J. \$5 Monthly.....ONLY 89.95



Requires 41/4" below base plate. 51/2x17x121/2". For 110-120 v., 60 cycle AC. Made in U.S. Shpg. wt., 16 lbs.

95 DX 835-J. \$5 Monthly ONLY 59.95

OILED WALNUT BASE. For above. Solid 3/4" wood. 4½x21x13". Shpg. wt., 8 lbs. 95 DX 552-J. ONLY 12.95

You Get More for Your Money at Allied



Deluxe Record-Playing Components... that Cost You Less

KN-1020 DYNAMIC-BALANCE PICKUP ARM

Only

- Calibrated, Sliding Pressure-Gauge
- Tracks at Anywhere From 1-4 Grams
- Precision Gimbal Suspension
- \$5 monthly Easily Adjustable Counterweight

Packed with unique design features for superior sound, yet costs about 30% less than most standard pickup arms! Use this precision unit with our Knight KN-1015 turntable at the left, or with any other high-performance turntable for professional-quality reproduction.

Dynamic balance, achieved through the use of a sliding counterweight, permits using any cartridge in the KN-1020's plug-in head. After the cartridge is installed, it takes just 10 seconds to attain perfect balance. Simply set the counterweight to the position that perfectly balances the arm in a horizontal position, then set the calibrated sliding-ring to the desired tracking pressure. The arm is so precisely balanced that it will actually track properly at a 45° angle—there's no need to level the turntable. Gimbal suspension, as used in precision navigation instruments, allows free arm-movement in all directionswithout binding. Exclusive lateral compensation permits stylus to ride evenly on both sides of record grooves. Chrome plated. 11" long. With terminal strip; less audio cables. From Denmark. 2 lbs.

95 DX 851-J. \$5 Monthly.....ONLY 19.95 95 R 852-J. Extra Plug-In Shell. 3 oz....ONLY 2.95

REPLACEMENT STYLI FOR KNIGHT CARTRIDGES

ILLI ENGLIS	01.1	Deniscement For	07.	ONLY
Stock No.	Stylus 11p	Replacement For	<u> </u>	
95 RC 802-J	.0007"	KN-500	2	5.95
	10001	KN-500X	2	6.95
95 RC 805-J	.0005″			8.95
95 RC 808-J	.0006″	KN-505X	1 2 :	0.00

NEW KN-505X DELUXE STEREO CARTRIDGE

Finest Stereo Cartridge Anywhere

- 15-30,000 Cps Frequency Response
- Over 25 Db of Channel Separation

• 0.6 Mil Polished Diamond Stylus \$5 monthly

TRADE-IN DEAL-SAVE 50%-

Get a KN-505X at 50% savings—by trading in ANY type of old cartridge. Order at our trade-in price-we'll ship your KN-505X and explain how to send your trade-in.

The finest stereo cartridge yet developed. Patterned after our nationally acclaimed KN-500X, the "Golden Tone" KN-505X incorporates improvements that give it specifications exceeding the demands of any music lover.

Remarkably low tracking pressure and a new, .0006" diamond stylus guarantee greatly prolonged record-life, as well as absolute minimum high-frequency distortion.

In jewelry-type case. With easy mounting instructions. For 1/2" or 1/16" mtg. centers. 4 terminals. Shpg. wt., 3 oz.

95 RC 806-J. \$5 Monthly ONLY 39.95 95 RC 806-J. With Trade-In. ONLY 19.97

-KN-505X SPECIFICATIONS-

Output: 7.5 millivolts per channel.

Compliance (Vert. and Hor.): 15x10-6 cm/dyne.

Response: 15 to 30,000 cps.

Channel Separation: Exceeds 25 db. Tracking Force: 3/4 to 5 grams. Load Impedance: 47,000 ohms.



PROFESSIONAL RECORDING TAPE

Controlled quality. Made in the most modern U.S. factories; rigidly controlled in each phase of manufacture.

Double inspected ... to meet Allied's high standards—assures absolute uniformity.

Guaranteed splice-free. Knight tapes are not patchwork pieces—every reel is one continuous length.

Finest materials. Tape coating is a special oxide that won't rub off on tape heads.



Highest-Quality Recording Tape

KN-50 DELUXE PLUS-PLAY 1-MIL "MYLAR TAPE"

First choice of the professionals for full-range response and extra playing time. Outperforms tapes costing twice as much, and runs 50% longer than standard tape. Tough "Mylar" base is moisture and heat-resistant. Deep-lubrication protects heads; treated surface gives top sensitivity. Tensile strength meets government specs. Cellophane-sealed hinged box. Made in U.S.

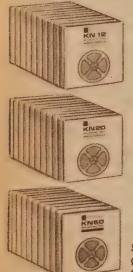
Stock No.	Footage	Reel Size	Lbs.	1-4, EACH	5-Up, EACH
95 R 754-J		5"	3/4	1.75	1.61
95 R 755-J	1800′	7"	11/2	3.14	2.90

NEW! KN-60 1/2-MIL TENSILIZED "MYLAR"

KN-10 DOUBLE-STRENGTH 1/2-MIL "MYLAR"

SPECIAL 10-PACK. Save 72c. Individually boxed. 5 lbs.

MONEY-SAVING OFFERS ON KNIGHT TAPES AND CARRYING CHEST



PACKAGE of 10
TAPES Plus CHEST



Stock up on tape and get this 10-reel carrying case, too—order now for Big Savings.

SAVE \$2.95-10 REELS OF KN-12 AND CHEST

Ten 7" reels of Knight's Special Formula KN-12 1½-mil "Mylar" tape (described on following pages) in a blue and white carrying case. Shpg. wt., 11 lbs.

SAVE \$3.25-10 REELS OF KN-20 AND CHEST

Enjoy a real bargain on ten 7" reels of KN-20 1-mil "Mylar" tape (18,000 ft.) and a leatherette-covered case that neatly holds all 10 reels. (KN-20 described on following pages.) 11 lbs.

95 RX 761-J. \$5 Monthly......COMBINATION, ONLY 22.50

SAVE \$5.00-10 REELS OF KN-50 AND CHEST

You Get More for Your Money from Allied

JUTSTANDING TAPE VALUES. fou may not be able to see the unexcelled quality of these recording apes, but it's there! Manufactured to conform to rigid government specifications and double-tested, Knight apes are universally accepted by studios, schools, and tape recording anthusiasts.

YOUR
QUICK
GUIDE
TO TAPE
PLAYING
TIMES

Tape Reel Size		Tape Footage	1/2-TRACK (2-Track Mono, 4-Track Stereo)—Total Time Both Tracks SPEED (INCHES PER SECOND)			QUARTER-TRACK 4-Track Mono—Total Time 4 Tracks SPEED (INCHES PER SECOND)		
		1%	3¾	71/2	11/2	3¾	71/2	
Standard 1½-Mil	3° 4° 7° 7°	150 300 600 1200	½ hr. 1 hr. 2 hrs. 4 hrs.	15 min. ½ hr. 1 hr. 2 hrs.	7½ min. 15 min. ½ hr. 1 hr.	1 hr. 2 hrs. 4 hrs. 8 hrs.	½ hr. 1 hr. 2 hrs. 4 hrs.	15 min. ½ hr. 1 hr. 2 hrs.
Long-Play 1-Mil	5'	900 1800	3 hrs. 6 hrs.	1½ hrs. 3 hrs.	45 min. 1½ hrs.	6 hrs. 12 hrs.	3 hrs. 6 hrs.	1½ hrs. 3 hrs.
Extra-Play 1/2-Mil.	3° 5° 7°	300 1200 2400	1 hr. 4 hrs. 8 hrs.	½ hr. 2 hrs. 4 hrs.	15 min. 1 hr. 2 hrs.	2 hrs. 8 hrs. 16 hrs.	1 hr. 4 hrs. 8 hrs.	½ hr. 2 hrs. 4 hrs.

Exclusively Available at Allied

KN-15 STANDARD 11/2-MIL ACETATE TAPE

The same type of magnetic tape used by most major recording labels for their pre-recorded high-fidelity tapes... and it's yours at a low, low price. A real buy, our KN-15 tape compares with any brand of 1½-mil acetate-base tape, regardless of how much more it may cost. Quality protected, this tape gives outstanding results in professional as well as all home recording applications. Employs purest red oxide surface, precision applied and deeplubricated, to assure excellent audio response, noiseless reproduction and absolutely uniform output level. Guaranteed splice-free for smoothest service. Sealed in cellophane in hinged box. Made in U.S.

Stock No.	Footage	Reel Size	Lbs.	1-4, EACH	5-Up, EACH
95 R 750-J		5"	1/2	1.09	1.03
95 R 751-J	1200'	19 1 7" m	1 .	1.71	1.57

KN-30 PLUS-PLAY 1-MIL ACETATE TAPE

KN-30 is one of the most popular recording tapes available today ... and with good reason! It offers vastly superior quality, halfagain as much running time (in fact, it's possible to pack as much as 12 hours of material on a single 7" reel), plus excellent savings. The additional length provided by Plus-Play tape lets you make uninterrupted recordings of entire concerts, conferences, broadcasts, sports events and many other events you may wish to capture forever on magnetic tape. KN-30 features a thinner base and special coating of oxide for superb audio response. Supplied in a hinged box sealed in cellophane. Made in U.S.

95 R 752-J 900' 5" 34 1.29 95 R 753-J 1800' 7" 11/4 2.32	1.13



KNIGHT ACCESSORY PACKAGES FOR HIGHEST-QUALITY TAPES

SAVE \$1.99—LOW-COST PACKAGE

A "must" for the serious tape fan. Items bought separately would cost \$11.94. You get: 3—7" reels of KN-121½-mil "Mylar" tape; 150' of leader tape; tape splicer and 150" of splicing tape; 24-page booklet on "Tape Editing and Splicing"; tape threader; 2 oz. bottle of head cleaner; 30 adhesive tape-identification labels; 12 tape clips to keep reels from unwinding. 6 lbs.

95 RX 701-J. ONLY 9.95

SAVE \$4.10-PROFESSIONAL PACKAGE

As above, but you get 5 reels of KN-12, plus head demagnetizer that maintains "like new" performance from recorder; bottle of tape and head lubricant; and tape-cleaning cloth that stops squeal and chatter. Shpg. wt., 8 lbs.

20 RX 367-2J. \$5 Monthly.....ONLY 18.95



Low-cost
Plus-Play tape . .
same high

standards as other Knight tapes.

Professional: Above, plus 2 Extra Tapes; Demagnetizer; Lubricant; Cleaning Cloth





BEST VALUE
RECORDING TAPE

GREATEST TAPE VALUE IN THE WORLD . . . exclusive available at Allied. Knight's Special Formula tape is actual made to far higher standards than most costly audio tapes your assurance of phenomenal quality at a fantastically led price. Each reel is uniformly wound and precisely slit, a guaranteed splice-free. Moisture-resistant, too . . . no curling twisting either. Compare quality—then compare price. matter how much you use, or what you use it for, you can beat Knight Special Formula tape.



SPECIAL FORMULA Magnetic Tape

KN-12 SPECIAL FORMULA 11/2-MIL "MYLAR"

KN-20 SPECIAL FORMULA 1-MIL "MYLAR"

KN-70 SPECIAL FORMULA 11/2-MIL ACETATE

KN-70 is our lowest-priced recording tape. A fabulous buy, it's your best choice for general-purpose taping at minimum expense. Its low price slashes your recording costs to a fraction of what you'd normally expect to pay—yet you still enjoy superior response and lowest noise levels, plus deep-lubrication for longer head-life. Also has precision-applied oxide surface and uniform output level. Guaranteed splice-free. In 1200-ft., 7" plastic reel. Made in U.S. Shpg. wt., 1 lb.

95 R 766-J. 5-Up, EACH 1.15 EACH, ONLY 1.25

SAVE UP TO \$1.44 ON TAPE AND CARRYING CASE OFFERS



SAVE \$1.29-5 REELS OF KN-12 AND CHEST

A special offer at an unbeatable price. Ten 7" reels of Special Formula 1½-mil "Mylar" tape in a handy carrying chest. Get 600 feet of quality tape, plus the chest, for an unbelievably low price Shpg. wt., 6½ lbs.

95 R 763-J. COMBINATION, ONLY 7.6

SAVE \$1.44-5 REELS OF KN-20 AND CHEST

SAVE \$1.29-5 REELS OF KN-70 AND CHEST

95 R 703-J. Carrying Case Only. 1 lb., season A. ... ONLY 1.4

Distinguished Stereo Components by W SCOTT

222-C 48-WATT STEREO AMPLIFIER

Extreme Versatility

Massive Transformers

. Full Array of Controls

• Brushed-Brass Panel

'roviding unusual performance and flexibility at a modest price. elivers 24 watts per channel for a full 48 watts of stereo or monohonic sound. Employs oversize output transformers for outtanding bass response and virtually unmeasurable distortion. ape-monitor switch permits monitoring of recordings as they re made (when used with tape recorder with separate record and playback heads). Has extra high-level input, in addition to thers, for feeding TV sound through the 222-C or for adding any ther high level program source to your music system.

Other features include stereo headphone jack; separate bass and treble controls for each channel; balance control. IHFM Ausic Power Output: 48 watts (both channels). Response: flat rom 20 to 30,000 cps. Hum & Noise: -80 db. Distortion: Harnonic, 0.8% at full rated power; IM, 0.3%. Controls: Input Selector Phono or Tape Head, Tuner, Extra); Function Selector (Balance Channel A; Balance Channel B; Monophonic Records; Stereo; Stereo Reverse; Channel A Mono; Channel B Mono; 2—Bass; 2—Treble; Stereo Balance; Loudness; Off /On; Volume /Loudness; Scratch Filter; Loudness Compensation Switch. Uses 1 189 audio output tubes; D3 on preamp filaments. 4 1/2 15 1/2 x 2½". Less case, below. For 105-125 v., 50-60 cycle AC. Shpg. vt., 25 lbs.

2 SU 021-J. \$9 Monthly NET 169.95

12 SX 001. Metal Case. Simulated leather. 1 1/2 lbs.... NET 13.95

12 SX 002C. Wood Case. Specify mahog. or walnut. 5 lbs. .22.50

H. H. Scott equipment is noted for uncompromising standards of performance—the Scott name on components is synonymous with the ultimate in listening pleasure. Easily custom-mounted or may be installed in optional cases listed below units.



STEREO PHONO SYSTEM WITH 222-C AMPLIFIER

Perfectly matched custom stereo system provides dazzling stereo, full flexibility. And you save \$97.72 over the cost of individual components purchased separately. Includes: Scott 222-C 48-Watt Stereo Amplifier; Garrard Type A 4-speed Automatic Turntable; New Pickering U-38AT Stereo Cartridge with .0007" Diamond Needle; two Electro-Voice LT-12 12" 3-Way Hi-Fi Speakers. EV speakers provide extended response to 18,000 cps. With cables, instructions. Amplifier less case. Shpg. wt.,

21 HF 101-J. \$14 MonthlyONLY 260.95 73 RX 056-C. Wood Base for Changer. Specify mahogany,

73 RX 059. Unfinished Mounting Board for Changer. Shpg. wt.,



Scott 350B Multiplex **FM** Tuner

MULTIPLEX FM-PHONO SYSTEM. Save \$141.67. Includes components above, plus Scott 350B Stereo Multiplex FM Tuner that provides outstanding reception of FM and stereo FM broadcasts. Features built-in multiplex circuit, silver-plated front end for extreme sensitivity. Has planetary tuning mechanism, illuminated dial, sonic monitor tuning indicator. Less case. 92 lbs. 21 HF 100-J. \$19 Monthly ... ONLY 436.95

NEW MODEL 340 60-WATT STEREO MULTIPLEX FM TUNER-AMPLIFIER

Featuring "Sonic-Monitor" Audible Stereo Indicator



• Unique "Sonic-Monitor"-Tune to the Tone, Indicates Stereo Multiplex FM Program Being Broadcast

· Sensitive Silver-Plated FM Front-End

- 60-Watt Stereo Amplifier Section for Power to Spare
- Separate Bass and Treble Controls for Each Channel

Offers a host of deluxe features. FM section features built-in multiplex circuit and unique, foolproof "Sonic-Monitor" that sounds an audible tone when a stereo program is being transmitted. Silver-plated front end gives 2.5 µv IHFM sensitivity; has AGC, illuminated tuning meter. 60-watt (both channels) IHFM amplifier section reproduces music with clarity. Offers full array of controls and stereo inputs. Frequency Response: ±1 db, 20-20,000 cps. Distortion: Harmonic, 0.8% at rated power; IM, 0.5%. Traditional Scott brushed-panel styling. Size, 6½x17½x 16¾". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg.

72 SX 606. Metal Case. Simulated leather. 3 lbs..... NET 17.95

72 SX 007-C. Wood Case. Specify mahog. or walnut. 8 lbs.. 29.95

SCOTT

Renowned Hi-Fi Component



Net Less Case

H. H. Scott high delity compone have an outstand record of engine record of ing leadership ε ing leadership ε reliability. equipment list here offers unco promising standar of performance, a is exquisitely sty for use in home n sic systems.

SPECIFICATIONS

IHFM Sensitivity: 2.5 µv for -30 db hum, noise and distortion. 1 µv for 20 db of quieting using a balanced 72 ohm antenna.

Frequency Response: Virtually flat out to 75,000 cps for true wide-band reception.

FM Detector Bandwidth: 2 mc.

Main FM Carrier Circuit: 150 kc IF bandpass.

Vernier Tuning: Illuminated dial.

Newly improved version of the popular Model 350, the moderately-priced 350-B offers a multitude of outstanding features. Has built-in multiplex circuit for flawless stereo FM reception, receives monophonic FM programs, too.

Incorporates Scott's exclusive "Sonic Monitor" that helps you quickly locate stations that are broadcasting stereo programs. You merely "tune to the tone."

The wideband design of the 350-B gives unparalleled frequency response and dynamic range with amazingly low distortion and noise, even on weak signals. New balanced detector circuit provides virtually flat response. Absolutely drift-free, requires no AFC. Silver-plated "front-end" provides excellent sensitivity. Subcarrier

noise filter provides effective quiet without affecting frequency response channel separation.

Signal-to-Noise Ratio: 60 db. Controls: lector (Off, Mono FM, Stereo FM with ter); Stereo Noise Filter; AGC (Mono, W tiplex); Level; Sonic Monitor; Tuni 5½x15½x13½". Less case, below. For 1 125 v., 50-60 cycle AC. 13 lbs. 72 SU 025-J. \$11 Monthly... NET 219.

MODEL 333. As above, but includes a section also. Shpg. wt. 17 lbs. 72 SU 039-J.....NET 259.

72 SX 001. Type C Metal Case. Simulat leather. Shpg. wt., 1 1/2 lbs...... NET 13

72 SX 002C. Type CW Wood Ca Specify mahogany or walnut. 51bs NET 24



Center-Channel Output



Clean Power to Drive Any Speaker



Tape Monitoring Output

H. H. SCOTT **TUNER FEATURES**

- Wideband FM Design
- Stereo FM Multiplex
- Planetary Tuning Mechanism, Illuminated Dial
- Tuning Indicator
- Tape Recorder Outputs
- Output Level Controls

H. H. SCOTT **AMPLIFIER FEATURES**

- Advanced Hi-Fi Engineering
- DC on Preamplifier Tubes
- Center-Channel Output
- Signal Lights to Indicate Mode of Operation
- Scratch, Rumble Filters
- Handsome, Custom Styling

MODEL 299-C 80-WATT STEREO AMPLIFIER

Less Case

A superb amplifier—designed to accommodate every existing signal source—for bea tifully realistic stereophonic high-fidelity reproduction. Has separate bass and treb controls for each channel; master volume control with loudness-volume switch; pha reversal switch; and tape monitor provision. Also features: scratch and rumble filter two low-level magnetic inputs that allow you to connect a stereo tape deck to the 299 as well as stereo cartridges. Controls: Selector (Balance A, Balance B, Stereo, Rever Stereo, Monophonic Records, Channel A, Channel B); Bass and Treble; Balance; Louness; Tape Monitor switch; Rumble Filter; Loudness-Volume; Scratch Filter; Channel and B Magnetic Inputs 1 and 2; Power Off-On; Phase Reverse; Input Selector (Eur 7 NAB Tape, Ortho RIAA, Tuner, Extra). Response: flat from 20 to 30,000 cps. Output 40 watts per channel. Hum: -80 db. 45/x151/x121/2". Less case. For operation from 10 125 v., 50-60 cycle AC. Wt., 25 lbs. 72 SU 026-J. \$12 Monthly

..... NET 229.9

No Money Down on Allied's Credit Fund Pla

Deluxe "4000" Series SCO

NEW MODEL 4100 STEREO PREAMPLIFIER

Designed for the discriminating listener, the 4100 provides the ultimate in flexibility and performance. Offers every desirable perating feature-separate bass and treble controls, dynaural noise and rumble suppressors, input level controls. Also frontpanel stereo tape inputs and outputs, separate on-off control, center channel level control, plus exclusive Scott stereo balincing system.

Response: Flat, 20-20,000 cps. Harmonic Distortion: Under 0.2%

72 SX 007C.Wood Case. Specify mahog. or walnut. 5 lbs. . . 29.95

NEW MODEL 4120 STEREO BASIC AMPLIFIER

A truly deluxe component that's a perfect companion to the 4100 oreamplifier, above. Provides 60 watts per channel IHFM Music Power Output for a full 120 watts of flawless sound. You also get a personal brochure that shows you the exact measured laboratory specifications of your own "4120." Specifications. Response: ±1 db, 4-65,000 cps at rated output. Distortion: Harmonic, under 0.2% at 1 kc; IM, below 0.5% at 60 watts. Hum & Noise: 90 db down. Size, 8x16x13". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 72 lbs.

NET 450.00

NEW MODEL 4310 STEREO MULTIPLEX FM TUNER

Every conceivable feature including built-in multiplex circuit. Automatically selects stereo or monophonic reception. Has interstation noise suppressor, two VU meters and level controls, master-level control, separation control. Sensitivity: 1.9 µv IHFM. Response: ±1 db, 30-15,000 cps. Selectivity: better than 50 db. Image Rejection: 85 db. 5½x15½x13½". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.





OUTSTANDING FEATURES-

- Receives Stereo and Mono FM
- "Sonic Monitor" Stereo Indicator
- Offers 3.5 µv Useable IHFM Sensitivity
- Stereo Recorder and Amplifier Outputs
- Output Level Controls for Each Channel
- Vernier Tuning; Illuminated Dial
- **Accurate Illuminated Tuning Meter**
- No-Drift Circuitry-Requires No AFC
- Beautiful Brushed-Brass Front Panel
- Optional Metal or Wood Cases

NEW MODEL 370 STEREO MULTIPLEX FM TUNER

All new, moderately-priced wideband stereo multiplex FM tuner that outperforms many units selling for much more. Gives outstanding reception of both FM and stereo multiplex FM broadcasts-reproduces the realism of stereophonic sound with professional quality in your home. Lets you enjoy the world's finest music in its fullest dimensions-includes many features that enable it to meet the many demands imposed on music systems by stereo multiplex FM.

Silver-plated "front-end" provides excellent sensitivity. Planetary dial mechanism and accurate tuning indicator combined with no-drift circuitry assure effortless "stay put" tuning. Also has illuminated lucite dial, smooth vernier tuning. Scott's exclusive "Sonic Monitor" quickly finds stations broadcasting a multiplex signal. Just flip a switch; tone sounds when station is transmitting stereo. Separate level controls permit perfect matching of both channels when receiving stereo broadcasts.

Useable Sensitivity: 3.5 µV IHFM. Frequency Response: ± 1 db, 50 to 15,000 cps. Signal-to-Noise Ratio: 60 db below 100% modulation. Total Harmonic Distortion: 0.7 %. Capture Ratio: 7db. Hum and Noise: 70 db down. Outputs: Channels A and B to tape recorder, Channels A and B to amplifier. Traditional Scott brushedbrass panel styling. 45/8×15 1/4×12 1/2". Less case, below. For 105-120 v., 50-60 cycle AC. Wt., 25 lbs.

72 SU 038-J. \$9 Monthly NET 169.95

72 SX 001. Metal Case. Simulated leather. 3 lbs..... NET 13.95

72 SX 002C. Wood Case. Specify mahog. or walnut. 5 lbs. . 24.50

Renowned Custom Stereo Component



SIMPLIFIED KIT BUILDING

Carefully engineered H. H. Scott kits corporate handy techniques to add to t ease of building: "Kit-Pak" Contain opens to become a work area ... All will are pre-cut to assure correct lead leng Mechanical parts are pre-riveted the chassis... All parts are mounted "Part-Charts" in order of use—simplies construction, eliminates chance error ... instruction books printed in f color for easier parts identification. Tuner kits use "Ez-A-Line" alignment system—no special tools needed. Thard work is done—the fun's left for yo

MODEL LK-72 80-WATT STEREO AMPLIFIER KIT

Net Less Case Superior Design—Incorporates Every Desirable Control **Every Conceivable Input Facility**

- Plenty of Power for Unexcelled Purity of Sound
- Center-Channel Output with Separate Level Control
- Individual Bass and Treble Controls for Each Channel
- . Styled in Contrasting Brown Leather on Gold Panel

Enjoy all the advantages of renowned Scott quality and precision design at lowest cost, by assembling this outstanding stereo amplifier kit yourself. Delivers plenty of power for reproducing deepest low tones to cleanest highs-and a full array of controls gives you complete command over audio reproduction. Furthermore, the LK-72 has inputs for accommodating any music source including tape decks. It's an unexcelled value at a truly economical price!

Includes: DC-operated preamplifier filaments for minimum hum; level control for optional center channel; and tape monitoring provisions. The LK-72 also features conservatively rated components-such as oversized transformers weighing 12 lbs.-for long-life and trouble-free operation. Controls: Input Selector; Equalization; Stereo Selector; separate Bass and Treble for each channel; Stereo Balance; Loudness; Scratch Filter; Loudness Compensation.

Power Output: 40 watts per channel, IHFM. Frequency Response: ±1 db, 20-20,000 cps. IM Distortion: 0.3%. Harmonic Distortion: 0.8%. Hum and Noise: -80 db. Size, 4%x15½x 12½"—just right for custom installations. Less case, listed below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 23 lbs.

72 SZ 000-J. \$8 Monthly..... 72 SX 001. Type C Metal Case. For above. Shpg. wt., 11/2 lbs.................NET 13.95

72 SX 002-C. Type CW Wood Case. Specify mahogany or oiled walnut. 5 lbs.NET 24.50



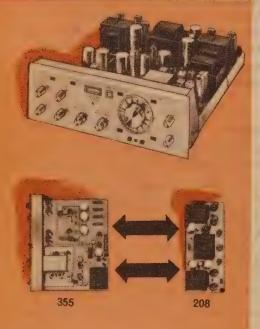
MODEL LC-21 PREAMP KIT

Deluxe control center with facilities every mode of monophonic and ster operation, Features unique shielding power supply stage, non-magnetic elect lytic aluminum chassis and DC-heat tubes for extremely low hum and noise Response: ±1 db, 8-50,000 cps. Distortic 0.1% at 2.5 volts output. Matches inc sensitivity of LK-150, next page. Attracti dark-brown panel, polished gold edç 5¼x15½x13½". Less case. For 105-125 50-60 cycle AC. Wt., 10 lbs. 72 SU 003-J. \$6 Monthly... NET 99.

72 SX 001. Metal Case. 1 1/2 lbs.NET 13.

72 SX 002-C. Wood Case. Specify m hogany or oiled walnut. Wt., 5 lbs. NET 24.

H. H. SCOTT'S OUTSTANDING "STEREOMASTER" ENSEMBLE



MODEL 355 AM-FM MULTIPLEX TUNER-PREAMPLIFIER

A unique idea-on a single "Stereomaster" chassis you get a wideband FM multiple tuner, wide-range AM tuner, and professional-quality stereo control preamplifier with clamp-on facilities for attaching the optional stereo basic amplifier described below When combined with the 208 basic amplifier, the 355 becomes a complete stereo r ceiver. The FM multiplex section features the same outstanding circuit found in Scotl Model 350B broadcast-quality tuner. Stereo preamp section has full array of controls fadjusting sound with ease. Other features include: illuminated dial for FM and Al stereo station tuning indicator; tape recorder outputs; output level controls; etc. Tun response to 75,000 cps for true wideband reception. Preamp response, 20-30,000 cp 51/2x17x13". Less case and amplifier. For 105-125 v., 50-60 AC. 19 lbs.

72 SX 006. Type G Metal Case. For above. Shpg. wt., 19 lbs......................NET 17.1

72 SX 007-C. Type GW Wood Case. Specify mahogany or oiled walnut. 19 lbs.NET 29.

MODEL 208 80-WATT STEREO BASIC AMPLIFIER

"Clamp-on" 80-watt basic stereo amplifier module-matched in quality and designe for use with the Scott 355 tuner-preamplifier, described above. At 40-watts per channe this dual-channel amplifier offers plenty of reserve power to drive any stereo speak system. Features a superb low frequency response down to 19 cps, to please the mo critical music lover. Distortion: less than 0.5% at full power. Hum and Noise: -90 d Input Sensitivity: 1.5 and 2.5 v. to permit use of any preamp. Size, 5x16x7". For 105-1: volts, 50-60 cycle AC. Shpg. wt., 28 lbs.

Choose Your Own Scott Music System—Write for Allied's Pric





LK-150 AMPLIFIER KIT

Deluxe stereo basic amplifier kit for use in he finest music systems. Delivers 65-wattper-channel IHFM power output for total of 130 watts. Features 15-lb. output transormers for virtually flawless low-frequency response; and non-magnetic electrolytic aluminum chassis for rapid neat dissipation; built-in bias meter. Power Bandwidth: from below 19 cps to above 25,000 cps. Hum: -90 db. Harmonic Distortion: less than 0.5%. Matches LC-21 stereo preamp kit, previous page. 7½x 15½x11½". Less case. For 105-125 v., 50-60 cycle AC. 52 lbs.

12 SZ 009-2J. \$9 Monthly...NET 169.95

72 SX 020, Case. For above. 5 lbs. . . 19.95

MODEL LK-48 48-WATT STEREO AMPLIFIER KIT

Moderately priced stereo amplifier-control center that delivers 24 watts per channel for a total 48-watt output (IHFM). Includes facilities for every stereo or monophonic music source, as well as a complete complement of controls. Uses DC-heated preamplifier filaments for low hum and noise. Response: ±1 db, 20-20,000 cps. Harmonic Distortion: 0.8% at full output. Hum and Noise: -80 db. Styled in contrasting dark brown and polished gold. 4%x151/2x121/2". Less case. For 105-125 v., 50-60 cycle AC. Wt., 19 lbs.

72 SX 002-C. Wood Case. Specify mahogany or oiled walnut. Wt. 5 lbs.,... NET 24.50

MODEL LT-110 STEREO FM MULTIPLEX TUNER KIT

Remarkable FM tuner kit complete with built-in multiplex circuit for superb reception of stereo FM broadcasts. Employs the same outstanding silver-plated front-end and wideband circuitry used in factory-assembled Scott tuners. Front-end and multiplex section are pre-mounted, pre-wired, and pre-aligned at factory to assure perfect results—lets you enjoy FM programming as soon as kit is completed—no further testing or alignment required. Includes illuminated tuning meter. Circuit features 3 stages of IF and 2 full limiting stages with 2-mc detector bandwidth. Sensitivity: 2.2 µv IHFM. Has 10 tubes and 11 diodes. Styled to match LK-48 amplifier, listed above. 45/2x15/4x12/2". Less case. For 105-125 volts. 50-60 cycle AC. Shpg. wt., 15 lbs.

72 SX 002-C. Wood Case. Specify choice of mahogany or oiled walnut finish. Shpg. wt.,

SELECTED H. H. SCOTT STEREO AND MONOPHONIC HI-FI COMPONENTS

MODEL 296 96-WATT STEREO AMPLIFIER. Every desirable control and input—even has front-panel headphone jack. HFM Power Output: 48 watts per channel. \pm 1 db, 20-20,000 cps.

MODEL 99D 22-WATT MONOPHONIC AMPLIFIER. Complete array of controls. 20-20,000 cps. Harmonic Distortion: less than 10.8%. 4%x15x12". Less case (Type C listed under Model LT-110, above). For 105- 125 v., 50-60 cycle AC. 20 lbs.

72 SU 014-J. \$6 Monthly......NET 124.95

MODEL 314 FM TUNER. Wideband circuitry provides noise-free

MODEL 335 MULTIPLEX ADAPTER. For Scott FM tuners. 51/x71/x13" Less case. For 105-125 v., 50-60 cycle AC. 8 lbs.

72 SU 019. Walnut Case. For 335 or LM-35. 4 lbs.....NET 14.95





A Living Tradition of Excellent



500-B 65-WATT STEREO MULTIPLEX FM RECEIVER

\$35950

- Amplifier and FM Tuner On One Chassis
 Receives Stereo Multipley Procedures
- Receives Stereo Multiplex Broadcasts
 Exclusive "Stereo Beam" Indicator Light
 Controls and Inputs for Every Source
- Handsome Brushed Brass Control Panel

In a single deluxe unit, you get a highly sensitive FM tuner with latest stereo multiplex FM circuit, plus a stereo amplifier that gives you 65 watts of music power! Tuner circuit employs phase-linear, wide-band design for lowest distortion and highest stereo separation throughout the entire audio band. Has special noise filter to reduce hiss and background noise during reception of stereo multiplex FM programs, without affecting frequency response. Also has four IF stages for increased dynamic range, high selectivity and better signal-to-noise ratio. "Stereo Beam" tuning eye tells you whether the FM station you're tuned in on is broadcasting monophonically or stereophonically. IHFM Sensitivity; 2.2 microvolts.

Amplifier Section. IHFM Music Power Output: 65 watts. Response: overall, 25 to 25,000 cps; amplifier, ±1½ db, 5-45,000 cps. Hum & Noise:—85 db. Harmonic Distortion: 0.5% at rated power. Front panel has 7 controls and 6 switches; 17 inputs and output jacks on rear panel to accommodate every conceivable stereo and monophonic program source. Size, 5¾x17½x13¼″. Less case, below. For 105-120 v., 50-60 cycle AC. Wt. 31 lbs.



STEREO FM-PHONO SYSTEM FEATURING 500-1

Selected by Allied's audio staff to provide the ultimate in stellistening, this deluxe custom component array is a rare val You save \$143.55 over the cost of individual components pechased separately. System includes: Fisher 500-B Stell Multiplex FM Receiver described fully at left; Garrard Type "Automatic Turntable; Empire 880 Stereo Cartridge with Emond Needle; 2—Jensen H-222 12" Coaxial Speakers; plus all connecting cables for fast easy hook-up.

all connecting cables for fast easy hook-up.

Type "A" Changer plays all 4 speeds, pampers your recore Empire 880 cartridge tracks flawlessly. Install the Jensen speak in your own cabinets or "in-the-wall." Have 1 ¾-1b. magnet marvelous bass response. Receiver comes less case, see Mo 30-U Wood Case, listed at left. Wt., 74 lbs.

73 RX 056-C. Wood Changer Base for Type "A". Specify r hogany, limed oak, or walnut finish. Shpg. wt., 4 lbs... NET 4 73 RX 059. Unfinished Changer Mounting Board. For custo installing Type "A" Changer. Shpg. wt., 1½ lbs......NET 1

Famous Fisher 800-B 65-Watt Stereo Multiplex FM-AM Receiver



\$429⁵⁰

Less Case

- Three Units On A Single Chassis
- Powerful 65-Watt Stereo Amplifier
- Receives AM, FM and FM Stereo
- Exclusive "Stereo Beam" Indicator
- Full Array of Controls and Inputs
- Handsome Brushed Brass Panel

A convincing example of precision engineering, the 800-B offe flawless stereo multiplex reception, monophonic FM reception and AM reception; complete audio control; input facilities flevery conceivable stereophonic and monophonic program input and a husky 65 watts of power. Incorporates every desirable flature for clean FM reception, either monophonic or stereophor—phase-linear, wide-band circuitry; three IF stages; front-parnoise filter to reduce hiss and background noise during ster multiplex broadcasts; tuning eye to indicate "on-station" tunin during regular FM broadcasts plus "Stereo Beam" to tell yowhen the station of your choice is broadcasting stereophonical Sensitive AM section of the tuner has separate tuning ey IHFM Sensitivity: FM, 2.5 μν; AM, 5 μν for 2-watt output.

72 SX 055C. Model 30-U Wood Case. For above. Specify maho any or oiled walnut veneer. Shpg. wt., 9 lbs.... NET EACH 24.

Get Fisher Components on Allied's Credit Fund Plan...See Page 4

n Superb Hi-Fi Component Design





X-100-B 50-WATT STEREO AMPLIFIER.

ne new, higher-power version of the famous "X-100", now offers u 50 watts of flawless sound. Has 17 front-panel controls and vitches, 14 input jacks (7 pairs) to accommodate every known gnal source. Includes center-channel output; independent, incentric bass and treble controls; scratch and rumble filters. IFM Music Power Output: 25 watts per channel Response: 1 db, 20-20,000 cps. Hum & Noise: —65 db minimum below ted output. Output impedances: 4, 8 and 16 ohms. Brushed ass panel. Size, 413/6×15 1/8×12 1/2". Less case, below. For 105-120, 50-60 cycle AC. 25 lbs.

SX 072. MC-2 Metal Case. Simulated leather. 7 lbs.,...15.95

ISX 074C. 10-U Wood Case. Specify choice of mahogany or alnut finish. Shpg. wt., 6 lbs......NET 24.95

FM-50-B STEREO MULTIPLEX FM TUNER

ffering excellent sensitivity and wide-band circuit design, the M-50-B provides outstanding reception of FM and stereo FM roadcasts. Employs triode RF stage and 4 IF stages for extremely igh-sensitivity and selectivity with minimum distortion. Also has ide-band ratio detector, three fast-acting limiters, AGC and FC, and local-distant sensitivity switch. Useable (IHFM) Sensivity: 2.2 microvolts for 20 db quieting. Outputs: 2—Amplifier; Tape Recorder, Brass-finished control panel. Size, 413/6x151/8x 11/8". Less case, below. For operation from 105-120 v., 50-60 cycle C. Shpg. wt., 14 lbs.

2 SX 072, MC-2 Metal Case. Simulated leather. 7 lbs.,...15.95

2 SX 074C. 10-U Wood Case. Specify choice of mahogany or



Brilliant "StrataKit" Stereo High-Fidelity Kits from Fisher

Unique, Time-Saving Approach to Kit Design Assembly by Easy, Error-Proof Stages Separate Transparent "Parts Packet" for Each Stage Major Components Already Mounted on Chassis Wires Pre-Cut to Size for Every Stage

Performance Fulfills Fisher's High Lab Standards



KX-100 50-WATT STEREO AMPLIFIER KIT

Combines precise design and top-quality engineering in a kit that's easy to construct. Perfectly matches the KM-60 tuner kit, below. Provides IHFM music power of 25 watts per channel. Offers 14 inputs (7 pairs) and 17 front panel controls and switches. Has rumble and scratch filters, independent concentric bass and treble controls for each channel, stereo headphone

KX-200 80-WATT STEREO AMPLIFIER KIT

Not illus, Provides IHFM music power output of 40 watts per channel for tremendous stereo reproduction; 3-channel output; full array of controls and inputs. Matches KM-60, below. Less case. For 105-120 v., 50-60 cycle AC. Wt., 26 lbs. 72 SU 066-J. \$9 Monthly......NET 169.50

KM-60 STEREO MULTIPLEX FM TUNER KIT

Tuning and multiplex sections are factory-aligned. Features Golden Cascode front-end, 4 IF stages and two limiters for superb reception; unique noise filter; precision d'Arsonval tuning meter (used during assembly for non-critical alignment); output level control on each channel for balanced reception of stereo

72 SU 071-J. KM-61 Tuner. Above, wired. Less case. NET 219.50

CASES FOR ABOVE "STRATAKITS"

MC-2 METAL CASE. In simulated leather. Wt., 7 lbs. 72 SX 072.....NET 15.95 10-U WOOD CASE. In mahogany or walnut finish. 6 lbs 72 SX 074C. Specify finish. \$5 Monthly NET 24.95

Satisfaction Guaranteed

ALLIED

FISHER

Meets Professional Standard



MODEL X-101 C 60-WATT STEREO AMPLIFIER WITH NEW HIDE-AWAY CONTROL PANEL

9950 Less Case

 Front-Panel Stereo Headphone Jack Center-Channel /Remote Speaker Output

 Seldom-Used Controls Hidden Behind Panel: You See Only Input Selector, Mod Switch, Master Volume / On-Off Switch

Highlighted by the "new look" in control panels, the X-10 offers a host of operating conveniences. Infrequently used c trols are hidden behind a flip-type front panel. Pushbut selectors choose a wide variety of inputs. Unit gives you IH output of 30 watts per channel for a full 60 watts of brilliant ste reproduction. Offers center-channel speaker output, tape mo toring feature that permits user to monitor while recording w out changing cable connections. Also has separate tone contr for each channel, input jacks for "Spacexpander" reverb unit following page. Frequency Response: ±1 db, 20-20,000 cps. Distortion: 1% at 50 watts. Size 413/6x15/6x121/2". Less ca below. For 105-120 v., 50-60 cycle AC. 25 lbs.

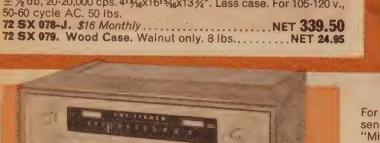
72 SU 077-J. \$10 Monthly......NET 199. 72 SX 072. MC-2 Metal Case. Simulated leather. 7 lbs.....15

72 SX 074C. Wood Case. Specify mahog. or walnut. 6 lbs....24

X-1000 110-WATT STEREO AMPLIFIER

Superb high power amplifier. Offers complete facilities, 20 frontpanel controls. Output: 55 watts per channel IHFM. Response: ± ½ db, 20-20,000 cps. 413/6x1615/6x133/4". Less case. For 105-120 v.,





FM-1000 STEREO MULTIPLEX FM TUNER

For superb monophonic or stereo FM reception. Offers: 1 µv. 1HF sensitivity; "Golden-Cascode" front end; 5 IF stages; 4 limiter "MicroTune" automatic AFC defeat. Has interstation noise su pressor, antenna selector, range switch; signal, VU meter Stereo Beacon lights and switches tuner to stereo when multiple program is received. 413/16x151/8x123/4". Less case, below. For 10 120 v., 50-60 cycle AC. 20 lbs.

72 SX 093C. Wood Case. Specify mahog. or walnut. 6 lbs... 24.1

FM-100B STEREO MULTIPLEX FM TUNER

For the discriminating listener, Incorporates complete multiple circuit plus superior wide-band design. Features cascode from end for 0.6 µv sensitivity (1.8 µv IHFM). Has 5 wide-band IF stage 4 limiters. "Stereo-Beam" lights to indicate stations transmitting stereo programs. Local-distant switch, amplifier and record outputs. 413/6x15 1/8x13". Less case. For 105-120 v., 50-60 cyc

72 SX 072. MC-2 Metal Case. Wt., 7 lbs.......................NET 15.1

72 SX 074C. Wood Case. Specify mahog. or walnut. 6 lbs....24.1

400-CX STEREO PREAMPLIFIER

Offers 28 controls and 9 pairs of stereo inputs. "Sonic-Nul stereo balance control, "Stereo-Dimension" blend control record-monitor facilities, pushbutton selectors, indicator light etc. ±1 db, 10-25,000 cps. Distortion: less than .004%. 413/6×153/ 12". Less case. For 105-120 v., 50-60 cycle AC. 20 lbs. 72 SU 083-J. \$10 Monthly......NET 199.5

72 SX 074C. Wood Case. Specify mahog. or walnut. 8 lbs....24.9



Yet Designed for the Home







X-202B 80-WATT STEREO AMPLIFIER

Less Case

- Unique Tape-Monitoring Feature
- Controlled Center-Channel Output
- Separate Bass and Treble Controls for Each Channel
- Attractive Brass-Finish Panel

he X-202B stereo amplifier gives you a remarkable array of ontrols, together with a music power output of 40 watts per hannel. Includes unique tape monitoring feature—lets you nonitor while recording and vary controls during tape playback vithout changing cable connections. "Stereo-Dimension" control lends the two stereo channels to any desired degree. Center hannel output has volume control and on-off switch. Offers 22 controls, 16 inputs, 7 outputs for associated components; and speaker outputs. *IHFM Output:* 80 watts. *Response:* ±1 db, 20-20,000 cps. *Distortion:* harmonic, 0.5%; IM, 1.0%. *Hum & Noise:*

12 SX 972. MC-2 Metal Case. Simulated leather. 7 lbs. 15.95

72 SX 074C. Wood Case. Specify mahog. or walnut. 8 lbs....24.95

FM-200B STEREO MULTIPLEX FM TUNER

Nat

Less Case

- . Sensitive "Golden Cascode" Front End
- Exclusive Stereo Beacon Indicator
- Exclusive "MicroTune" Feature
- Interstation Noise Suppressor
- Linear Logging Scale, Tuning Meter

Satisfies the most critical FM listener. Superb monophonic or stereo multiplex FM reception. Offers: 1-microvolt IHFM sensitivity: "Golden Cascode" front end; five IF stages; four limiter stages. Exclusive "MicroTune" feature disconnects AFC when tuning knob is touched, restores AFC when knob is released. Interstation noise suppressor "hushes' noise when tuning between stations. Antenna selector; distant-local range switch; signal meter for "right-on" tuning; plus "Stereo Beacon" that lights when station is transmitting stereo and automatically switches the tuner from monophonic to stereo operation. 413/16X 151/4x123/". Less case, below. For operation from 105-120 v., 50-60 cycle AC. Wt., 20 lbs.

72 SU 091-J. \$15 Monthly......NET 299.50

72 SX 072. MC-2 Metal Case. Simulated leather. 7 lbs. 15.95

72 SX 074C. Wood Case. Specify mahog. or walnut. 8 lbs....24.95



R-200 STEREO FM-AM TUNER

- Built-In Multiplex Circuitry
- 1.8 µv IHFM FM Sensitivity
- Exclusive Stereo Beacon

Sensitive cascode "front end" incorporates tuned RF stage. Wideband IF section has 5 stages, 4 limiters. "Stereo Beacon" lights an indicator when stereo is being transmitted and automatically switches the tuner from monophonic to stereo operation; interstage noise suppressor; 3 indicator lights; tuning meter; Distant/Local FM Sensitivity switch. Size, 413/16x15 1/4x12 3/4". Less case (listed below). For operation from 105-120 v., 50-60 cycle

AC. Shpg. wt., 30 lbs.
72 SU 047-J. \$5 Monthly . NET 299.50

72 SX 074C. Wood Case. Specify mahogany or walnut. Wt., 8 lbs......NET 24.95



MPX-200 MULTIPLEX ADAPTER

- Place It Anywhere—Set Controls Once, Operates Automatically
- High Channel Separation, Low Distortion

For concealed installation. For any tuner with multiplex adapter jack. Self-powered. Automatically switches to stereo when multiplex is received. 4x12x3½". For 105-120 v., 50-60 cycle AC. 4 lbs. 72 SU 098-J. \$5 Monthly...NET 79.50

PR-6 PREAMPLIFIER

Use with cartridge, tape head or mikedrives power amplifier. Equalization: phono, RIAA; tape, NARTB. Response: ±2 db, 20-30,000 cps. Hum: 60 db down. For operation from 105-120 v., 50-60 cycle AC. Shpg. wt., 1 ½ lbs. 72 S 049-J.

... NET 12.95

MPX-100 MULTIPLEX ADAPTER

- · Switches Itself to Stereo When Multiplex Broadcast is Being Received
- Convenient Stereo Dimension Control

For any tuner with multiplex adapter jack. "Stereo Beacon", stereo dimension control. 41/2x41/2". Less case, below. For 105-120 v., 50-60 cycle AC. 9 lbs.

72 SU 095-J. \$6 Monthly ... NET 119.50

72 SX 096C. Wood Case. Specify mahogany or oiled walnut. Wt., 2 lbs.... NET 14.95

K-10 "SPACEXPANDER"

Not illus. Simulates concert hall reverberation. Use with any stereo or mono music system having separate preamplifiers or tape monitoring facilities. Delay: 33 msec. Requires 0.2 v. input. 7 lbs.

72 SX 097-J. \$5 Monthly NET 69.50

kardon

The World-Famous Citation Line





A series of superbly en neered high-fidelity co ponents that offer outstanding reproducti

Net \$21995 Less Case

CITATION I DELUXE STEREO PREAMPLIFIER KIT

Complete stereo control center for your hi-fi system. Ideal mate for the Citation II. Offers ease of assembly, separate, step-type tone controls for each channel, DC filaments, low-noise resistors, 18 stages (9 dual triodes). Response: +0, -0.5 db, 5-80,000 cps. Distortion: under 0.05% at 2 v. Controls: Function (Aux, Tape, Tuner, Phono 1, Phono 2, Tape Head); Mode Selector; Blend (also adjusts third channel output), Equalization (2), Tone (4), Balance, Phase, Reverse, Contour, Tape Monitor, Power. 6x14 1/2x12 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. 31 lbs. 72 SU 100-J. \$8 Monthly. NET 159.95

72 SU 101-J. Above, wired. NET 249.95

72 SX 115. WC-1 Case. Walnut veneer. 73/x163/6x125/8". 3 lbs......NET 29.95

CITATION II STEREO BASIC AMPLIFIER KIT

Delivers 60-watts per channel for 120 watts of transparently-smooth sound. Multiple feedback loops provide low distortion, high stability. Uses 4—KT88 audio output tubes. Power supply uses 4 silicon diode rectifiers, filter choke, heavy-duty electrolytics and potted power transformers. Response: +0, -1 db. 20-20,000 cps. Harmonic Distortion: less than 0.5% at full power (20-20,000 cps). IM Distortion: less than 0.5% at full power. Hum and Noise: better than 90 db below 60 watts. Bias meter. Gold and charcoal brown. 9x16%x11½". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 71 lbs.

72 SU 102-2J. \$8 Monthly.....159.95 72 SU 103-J. Above, wired. NET 229.95 AC II METAL CASE. For above. 2 lbs. 72 SX 117.....NET 7.95

NEW CITATION HIX STEREO FM TUNER KIT

Provides outstanding FM and stereo reception. Offers sensitive Nuvistor fr end, 3 wide-band IF stages, prealigi RF and multiplex sub-assemblies. T ing and signal strength meters. Sei

CITATION III FM TUNER KIT. As abo less multiplex circuit. 32 lbs.

WC-1 WOOD CASE. For above un Walnut veneer, 3 lbs.

72 SU 108-J. Citation IIIMA Multip Adapter. Plugs into Citation above.Wt., 8lbs. Factory Wired NET 79

\$**249**95

Less Case





CITATION IV STEREO PREAMPLIFIER KIT

Offers many of the features of the Citation I, above, Includes separate bass and treble controls for each channel, DC on filaments, low-noise resistors. Continuously variable blend control. Response: +0, -0.5 db, 5-80,000 cps. Distortion: less than .05% at 2 v. Brown and gold. 55%x147%x11". Less case, below. For 110-120 v., 50-60 cycle AC. 25 lbs.

72 SU 111-J. \$6 Monthly. NET 119.95
72 SU 112-J. Above, wired. \$10 Monthly. NET 189.95
72 SX 115. Wood Case. Walnut veneer. 3 lbs. NET 29.95

CITATION V STEREO BASIC AMPLIFIER KIT

An ideal mate to the Citation IV, above, delivers 40 watts per channel for full 80 watts of superior stereo or monophonic output. 4—7581 output tubes. Resp: +0, -1 db, 2-80,000 cps at 1 watt. IM distortion: less than 0.5% at 80 watts. Hum and noise: better than 85 db below 40 watts. Has bias meter. Gold and charcoal brown. 5½x13⅓x11¼". Less case, below. For 110-120 v., 50-60 cycle AC. 40 lbs.

CITATION "A" TRANSISTOR STEREO PREAMP KI

 Uses 35 Transistors, Regulated Power Supply Unmeasurable Distortion, Flat Response

Meets the requirements of the most demanding audio perfectio ist. Pushbutton selector switches; accommodates every co ceivable source of sound. Response: +0, -1/2 db, 1 cps to 1 m

minal board construction. Brown and gold panel; less cas 14 1/2 x5 1/2 x7". For 110-120 v., 50-60 cycle AC. 30 lbs. 72 SU 109-J. \$13 Monthly......NET 249.9 72 SU 110-J. Above, wired. \$17 Monthly......NET 349.

Harmonic Distortion: unmeasurable at 2-volts output. Hum ar Noise: 70 db below rated output with 5 mv input. Military-type te

72 SU 201. WCA Walnut Case. Wt., 3 lbs.............NET 19.1

All-New "Award" Series Kits by



A-30K 30-WATT STEREO AMPLIFIER KIT

Low cost, excellent quality stereo amplifier in easy-to-build kit form. Provides IHFM music power output of 15 watts per channel for a full 30 watts of stereo or monophonic sound. Offers a full array of controls and inputs to accommodate every stereo or monophonic music source. Zero-to-Infinity balance control lets you adjust for optimum stereo effect. Continuously variable Blend control eliminates "hole-in-middle" effect. Ganged bass and treble controls cut or boost both channels simultaneously. Pushbutton switch lets you turn unit on and off without upsetting controls. Response: ±1 db, 15-70,000 cps at 1 watt. Distortion: less than 1% at rated

output. Front Panel Controls: Function (Phono-Lo/Tape-Lo, Phono-Hi, Tuner, Aux/Tape-Hi); Loudness; Blend; Bass; Treble; Balance; Rumble Filter; Contour; Stereo Reverse; Equalization (RIAA, NARTB). Tubes: 4—7408; 4—12AX7; 1—12AU7; plus two silicon rectifiers. Handy AC outlet. Size: 57/10x15 1/2x11 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. 25 lbs.

72 SU 118-J. \$5 Monthly.....NET 79.95

72 SX 126. CX-50 Gray Metal Case. For above. Shpg. wt., 2 lbs......NET 12.95

72 SX 127. WW50 Wood Case. Walnut veneer. Shpg. wt., 3 lbs......NET 29.95

REMARKABLE "AWARD"KITS



Unique Assembly with:

- Continuity Test Probe
- "Tool-Box" Packaging
- "Read-and-See"
 Instruction Book

Enjoy the gratifying experience of building a superb high-fidelity instrument with your own hands. New "Award" series kits offer advanced kit-building techniques to insure that your finished kit will be identical to a factory-assembled instrument.

Modular construction techniques simplify assembly. Battery operated continuity probe permits stage-by-stage checking as the kit is under construction.

"Tool Box" packaging with pull-out trays simplifies handling and identification of parts. Permits simple storage at any stage of construction.

"Read and See" Instruction book includes easy-to-follow text as well as diagrams plus interesting basic explanations of how the instrument works.

A-50K 50-WATT STEREO AMPLIFIER KIT

Professional features at moderate cost in an easy-to-build amplifier kit. Provides IHFM music power output of 25 watts per channel. Perfectly mates with the F-50XK Stereo Multiplex FM Tuner Kit, below. Features massive output transformers of special design for flawless response. Unique blend light indicates degree of channel separation—works with stereo blend trol. Jack on front panel disengages speakers when headphones are plugged in. Also has separate bass and treble controls for each channel; pushbutton on-off switch.

Response: ±1 db, 12-35,000 cps at 1 watt. Distortion: less than 0.5% at rated output. Controls: Speaker Reverse; Tape Monitor; Hi-Cut; Lo-Cut; Contour; Stereo Reverse; Ambiance; 2—Bass; 2—Treble; Balance; Blend; Loudness; Function Selector. Tubes: 4—7355; 1—12AU7; 4—12AX7/ECC83. Size, 51/6x151/4x12" (excluding knobs). Less case, uses either CX-50 Metal Case or WW50 Wood Case, listed under F-50XX, below. For 110-120 v., 50-60 cycle AC. Wt., 32 lbs.

72 SU 120-J. \$6 Monthly......NET 119.95

F-50XK STEREO MULTIPLEX FM TUNER KIT

Sensitive, distortion-free FM tuner that's the ideal mate to the A-50K Amplifier, above. Includes built-in mu tiplex circuit for reception of dazzling stereo FM broadcasts. Among its many features: wide-band discriminator circuit; AFC for "lock-in" tuning—with defeat provision; and indicator lights that show mode of operation—standard FM or Multiplex. Sensitivity: 0.85 µv for 20 db quieting; 3 µv IHFM. Frequency Response: ±1 db, 10-52,000 cps. Distortion: less than 0.1% at 100% modulation. Controls: On-Off; FM-Multiplex; Interchannel Muting; AFC; Tuning. Attractive brushed gold panel. Size, 51/16x151/x12". Less case, below. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 24 lbs.



ALLIED

\$9995

\$5 monthly

Superbly Engineered and Style



Strikingly attractive brushed gold styling, complete control facilities and stable performance keynote this outstanding, low cost stereo amplifier. Delivers IHFM power output of 15 watts per channel; a perfect mate for the T-300X, below. Accommodates every stereo or monophonic signal source. Offers balance and blend controls for optimum stereo; convenient illuminated pushbutton on/off switch; and ganged bass and treble controls.

Continuously Variable "Blend" Control

 Extremely Wide Frequency Response Beautiful Brushed Gold Panel

Frequency response: ±1 db, 15-70,000 cps at 1 watt. Distortion: less than 1% at rated output. Controls: Function (Phono-Lo/Tape-Lo, Phono-Hi, Tuner, Aux/Tape Hi); Loudness; Blend; Bass; Treble; Balance; Rumble Filter; Contour; Stereo Reverse; Equalization (RIAA, NARTB). *Tubes:* 4—7408; 4—12AX7; 1—12AU7; plus 2 silicon rectifiers. Also has handy AC convenience outlet. Size, 57/6x151/4x111/2". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

72 SX 126. CX-50 Gray Metal Case. 2 lbs.............NET 12.95 72 SX 127. WW-50 Wood Case. Walnut Veneer. 3 lbs. NET 29.95

72 SU 136-J. \$5 Monthly......NET 99.95

Cartridg

STEREO PHONO SYSTEM FEATURING A-300

Dazzling stereo, full flexibility and outstanding economy mal this a winning custom component combination! System include Harman-Kardon A-300 30-Watt Stereo Amplifier; Garrai Type "A" 4-Speed Record Changer and Wood Base; Shu M3D Stereo Cartridge with .0007" Diamond Needle; and 2-University S-80 2-Way Speaker Systems. In addition, you receive all connecting cables.

Garrard Type "A" Changer and Shure Cartridge get the most of of your records. University Speaker Systems have 8" woofer, 3) direct-radiator tweeter; employ ported phase-inverter princip for wide response. Base and speaker systems in mahogar or walnut finish. Less amplifier case. 75 lbs.
21 HF 102C-J. Specify Finish. \$13 Monthly....ONLY 252.9

STEREO FM-AM-PHONO SYSTEM. Save \$130.54. Same a stereo system above but with Harman-Kardon TA-3000X Stere Multiplex Receiver described below in place of A-300 Stere Amplifier. Less amplifier case. 92 lbs.

21 HF 103C-J. Specify Finish. \$17 Monthly.....ONLY 367.9

T-300X STEREO MULTIPLEX FM-AM TUNER

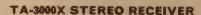
- Built-In Stereo FM Multiplex Circuit
- 0.95 μν Sensitivity on FM
- AFC "Locks-In" FM Stations
- Attractive Brushed Gold Styling

A superb choice for low-cost systems. Combines sensitive FM and AM tuners. FM section has built-in multiplex circuit that provides excellent separation, wide-band discriminator, 4 IF stages. Sensi-tivity 0.95 µv for 20 db quieting; 3.2 µv IHFM. Response: ±1 db., 10-35,000 cps. AM section has high selectivity and image rejection; ferrite loop antenna. Controls: Tuning; On-Off; AFC; Multiplex Off-On; Selector (AM-FM); FM Stereo Noise Filter. AC outlet. Size, 57/16x151/x111/2". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 25 lbs.

72 SU 137-J. \$8 Monthly... NET 149.95

CX-50 GRAY METAL CASE, 2 lbs. 72 SX 126 NET 12.95

WW-50 WOOD CASE. Walnut veneer. Shpg. wt., 3 lbs. 72 SX 127 NET 29.95



- All-in-1 Stereo Tuner-Amplifier
- High Sensitivity—Plenty of Power
- Attractive Brushed Gold Styling

For professional performance at a model ate price, combines stereo multiplex FM and AM tuner, 30-watt stereo amplifie and full array of controls. FM tuner sec tion has multiplex circuit, 3 IF stages

Sensitivity: 3.2 µv IHFM. AM section ha high selectivity. Amplifier section deliver IHFM music power of 15 watts per chan nel. Response: ±1 db, 15-70,000 cps at nor mal listening levels. Controls: Function Loudness; Blend; Balance; Bass; Treble Stereo Reverse; Phono-Tape; Contour; Lo Cut; Hi-Cut; On-Off. AC outlet. 57/10x151/4 11 ½". For operation from 110-120 v., 50-6 cycle AC. Shpg. wt., 37 lbs.
'72 SU 141-J. \$13 Monthly. NET 244.9

CX-80 GRAY METAL CASE. For above

Shpg. wt., 2 lbs. 72 SX 160 NET 12.9 WW-80 WOOD CASE. Walnut veneer





A-500 50-WATT STEREO AMPLIFIER

Separate Bass and Treble Controls for Each Channel Unique Blend Indicator Light, Stereo Headphone Jack

oaded with features for pleasurable listening, offers a full array of controls and inputs. Blend lights indicate channel separation. Ambiance control acts as center channel gain control. Response: ± ½ db, 12-35,000 cps at 1 watt. Output: 25 watts per channel HFM. Distortion: less than 0.5% at 1 watt. Pushbutton on-off witch. 51/6x151/4x12" (excluding knobs). Less case, below. For 110-20 v., 50-60 cycle AC. 32 lbs.

NET **159.95** 12 SU 152-J. \$8 Monthly....

2 SX 126. CX-50 Gray Metal Case. 2 lbs......NET 12.95

12 SX 127. WW-50 Wood Case. Walnut veneer. 3 lbs. 29.95

F-500X STEREO MULTIPLEX FM TUNER

- Interchannel Muting Switch; Distant-Local Range Switch
 Illuminated Tuning Meter; On-Off Pushbutton Switch

Highly sensitive and distortion-free, offers everything the discriminating listener desires. Has built-in multiplex, twin tuning gangs, image-rejecting RF stages, wide-band discriminator. Indicator lights show mode of operation—FM or Multiplex. Brushed gold panel. Sensitivity: 3 µv IHFM, Response: ±1 db, 10-52,000 cps. Distortion: Less than 0.1% @ 100% modulation. Front Panel Controls: On-Off; FM Multiplex; Interchannel Muting Defeat; AFC Defeat; Tuning, Size, 57/16x151/4x12". Less case, use with either CX-50 Metal Case or WW-50 Wood Case, at

TA-5000X DELUXE 50-WATT STEREO MULTIPLEX RECEIVER

A complete stereophonic home music center on a single chassis, the TA5000X combines a sensitive FM-AM tuner with a powerful 50-watt stereo amplifier and a complete array of controls and inputs. FM section has multiplex circuit, wide-band discriminator, gated-beam limiter, illuminated tuning meter. Sensitivity: 3.2 µV iHFM. AM section has high-gain RF amplifier, 10 kc bandwidth. Amplifier section provides 25 watts per channel IHFM music power. Response: ±1 db, 12-70,000 cps at 1 watt. Has separate bass and treble controls for each channel; also, blend and contour controls, front-panel stereo headphone jack. Brushed gold panel. Size, 61/4 x16x13 1/2" (excluding knobs). For 110-120 v., 50-60 cycle AC. 40 lbs.

72 SU 159-J. \$15 Monthly. NET 299.95

72 SX 160. CX-80 Gray Metal Case. For above. Shpg. wt., 2 lbs. NET 12.95

72 SX 169. WW-80 Wood Case. For above, Walnut veneer, Wt. 3 lbs., NET 29.95

TA-5000X

New All-Transistor Stereo Components

A-1000T ALL-TRANSISTOR 50-WATT STEREO AMPLIFIER

Offers superb, transparently smooth sound. Uses 29 transistors and 4 diodes. Audio transformers are eliminated to achieve flawless reproduction. Has 6 pairs of inputs, center-channel and headphone outputs. Controls grouped for convenience. Response: $\pm \frac{1}{2}$ db, 1-250,000 cps. Distortion: below 0.5%. Hum & Noise: 90 db down. $3\frac{5}{4}$ x14 1 /1•x8 3 %. Less case. For 110-120 v., 50-60 cycle AC. 20 lbs.

72 SU 185-J. \$13 Monthly, NET 249.95 72 SU 200. Wood Case For Above. Walnut finish. Shpg. wt., 3 lbs. NET 19.95

F-1000T ALL-TRANSISTOR STEREO MULTIPLEX FM TUNER

Provides superb FM and stereo FM reception. Uses 17 transistors and 13 diodes. Has stereo indicator light, automatically switches to stereo reception. Also: tuning meter, range switch, AFC. Sensitivity: 2.8 Heler, Tarings Switch, Ar C. Seristivity. 2.0 μV IHFM. Response: $\pm \frac{3}{4}$ db, 5-75,000 cps. Signal-to-Noise Ratio: 80 db. Distortion: below 0.1%. Size, $3\frac{5}{4}\times14^{1}/6\times8\frac{9}{4}$ ". For 110-120 v., 50-60 cycle AC. Wt., 12 lbs.

72 SU 199-J. \$11 Monthly. NET 209.95

72 SU 200. Wood Case. In walnut finish. Shpg. wt., 3 lbs......NET 19.95

A-1000T F-1000T

MX-700

ALLIED

127

Multiplex Adapters for Harman Kardon FM Tuners

MX-700 MULTIPLEX ADAPTER Self-powered, operates with older Har-man Kardon FM and FM-AM tuners equipped with multiplex output jack. 3 connections with cables supplied. 9x21/2x

4". For 110-120 v., 50-60 cycle AC. 5 lbs. 72 SU 146-J. \$5 Monthly..... NET 59.95 72 SX 147. CX-70 Metal Case. For above MX-600 ADAPTER. Not illus. For TA-230, TA-224, TA-260 tuners. Plugs into chassis. Takes power from tuner. 2 lbs.

72 SU 148-J. \$5 Monthly.... NET 49.95

MX-500 ADAPTER. As above, for F-500, ST-350, ST-360, ST-360A tuners. 5 lbs. 72 SU 149. \$5 Monthly......NET 39.95

MeIntosh

Professional Quality Hi-Fi Components





NEW MX110 STEREO TUNER-PREAMP

Has Front Panel Stereo Indicator

Less Cabinet

 Incorporates Cascode RF Stage, 3 IF Amplifier Stages, 2 Limiter Stages

Masterfully engineered to satisfy the requirements of the most critical audio connoisseur, this superb tuner-preamplifier provides the ultimate in quality FM and FM multiplex reception. Features full array of controls-employs 15 tubes; EM84A tuning indicator; 13 diodes; 4 rectifiers. Tuner sensitivity is better than 2.5 µv at 100% modulation. Supersonic multiplex frequencies are efficiently suppressed for heterodyne-free tape recording. Response: ±1 db, 20-20,000 cps. Distortion: less than 0.6% at 100% modulation. Anodized gold and black front panel. 51/8x151/2

72 SX 304. Oiled Walnut Cabinet. 5 lbs....................... NET 25.00

C20 STEREO PREAMPLIFIER

Meets the Highest Professional Standard

 15 Pairs of Inputs and a Full Set of Contro Handle Any Program Source Less Cabinet

This highly flexible preamp provides complete command over a stereo or monophonic material-comparable to the control pr vided by professional recording and broadcast installation Controls: Input Selector (Aux., Tape, Tuner 1 and 2 Stereo Mono, Phono 1 and 2 Stereo or Mono, Tape Head 1 and 2 Function Selector (Stereo Normal or Reverse, Left Channel onl Right Channel only, M-Left, M-Right—left or right channels both speakers); Bass and Treble; Bass and Treble compensator including RIAA, LP, Tape Head, flat position; Balance; Phas Loudness; High-Frequency Filter; Rumble Filter; Tape Jacswitch; Volume/On-Off, Low-Frequency Trim. Response: ± 1/2 d 20-20,000 cps. 51/8x151/8x1213/6". Less cabinet, listed below MX11 at left. For 110-120 v., 50-60 cycle AC. Shpg. wt., 29 lbs.
72 SU 301-J. \$12 Monthly: NET 269.0

C11 STEREO PREAMPLIFIER

 For Deluxe Systems Heavy-Duty Power Supply

Less Cabinet Superior Response
9 Pairs of Inputs

An excellent choice for deluxe home music systems, the C11 stereo preamp control center provides complete command of all audio reproduction. Assures smooth, pleasing sound from any high-quality source and permits precise tonal adjustment to suit room acoustics and personal taste.

Controls: Input Selector (Aux., Tape, Tuner 1, Tuner 2, Phono 1, Phono 2, Mic., Tape Head); Mode Selector (L to L and R, R to L and R, Stereo Rev., Stereo, Mono L+R, L+R to L, L+R to R); Left and Right Bass and Treble; Balance; Compensator; Tape; Phase; Power On-Off; Rumble Filter and High-Frequency Filter switches; Loudness; Volume; and Output Level ± ½ db, 20-20,000 cps. 51/8x153/4x10". Less cabinet, listed below MX110, above. For 110-120 v.,

50-60 cycle AC. 25 lbs. 72 SU 302-J. \$12 Monthly. .NET 229.50

MR65B STEREO FM TUNER!

Precision-engineered and highly sensitive, this outstanding tuner provides superlative FM and FM multiplex reception. Features a 6DS4 high-gain Nuvistor as the first stage of a two-tube RF amplifier. Circuit offers extremely high sensitivity. yet still retains excellent selectivity— enormously reduces possibility of interference from other stations. Usable sensitivity: 2.5 µv at 100% modulation. Hum: more than 70 db below 100% modulation. With multiplex indicator light. 51/8x155/6x123/16". Less cabinet. For 110-120 v., 50-60 cycle

AC. Shpg. wt., 31 lbs.
72 SU 300-J. \$16 Monthly. NET 329.00 72 SX 304. Oiled Walnut Cabinet. 61/8X 121/4x161/2". Shpg. wt., 5 lbs....NET 25.00

MC225 50-WATT STEREO BASIC

A magnificent basic amplifier for use with any of the preamps on this page, 18-60,000 cps. IM and harmonic distortion: less than 0.5% at full output. Imp.: 4, 8, 16, 150, 200 ohms. 91/6×615/16×141/2". For 110-120 v., 50-60 cycle AC. 39 lbs.

72 SZ 290-J. \$10 Monthly. NET 198.00

MC240 80-WATT STEREO BASIC

Meets the highest professional standard -ideal for the MX110 or C20. Output: 8 watts (40 watts per channel). Response ±1.0 db, 15-60,000 cps, full power. Had monic and IM Distortion: less than 0.5% Imp.: 4, 8, 16 ohms. For 105-130 v., 50-6 cycle AC. 10½x7½x16½". 60 lbs. 72 SZ 291-J. \$15 Monthly. NET 288.0

MC75 75-WATT BASIC AMPLIFIE Ideal for use in monophonic systems, o in pairs in ultra-deluxe stereo systems Same electrical specs as MC225, at left 81/4x81/4x163/4". For 117-125 v., 50-60 cycl AC. Shpg. wt., 48 lbs.
72 SZ 285-J. \$12 Monthly. NET 229.5

MC40 40-WATT BASIC AMPLIFIER

Carefully engineered monophonic basi amplifier. Response: +0, -1/2 db, 16-60,00 cps at rated output. Hum and noise: more than 90 db below rated output. Impedance 4, 8, 16, 125, 150, 600 ohms. 7 1/8 x 8 1/6 x 13 3/4 For operation from 110-120 v., 50-60 cycl AC. Shpg. wt., 35 lbs.
72 SU 281-J. \$8 Monthly...NET 159.0

MODEL 2425S1 30-WATT FM-AM STEREO RECEIVER

omplete tuner-amplifier combination for outstanding reception AM, FM and FM multiplex broadcasts—just connect it to a pair f good speaker systems and you have a top-notch FM-AM music stem. "Stereo Sentry" automatically switches FM section to sultiplex during "stereocasts." FM section sensitivity, 1.5 µv; um and noise level, -52 db; response, 20-20,000 cps, ±1db. M section sensitivity, 6 µv for 20 db s/n ratio. Output, 30 watts 5 watts per channel). Outputs: 8, 16 ohms and 2 high-impednce. 57/6×173/6 x133/7. For 110-120 v., 50-60 cycle AC. With alnut-finished, metal cabinet. 30 lbs.

2 SU 214-J. \$12 Monthly......NET 259.95

MODEL 2445S1 44-WATT STEREO FM-AM RECEIVER

vot illus.) Deluxe tuner-amplifier for exceptional AM, FM and M stereo multiplex reception. FM tuner has sensitivity of 1.2 y, 3 wide-band IFs; "Stereo Sentry" which automatically witches to multiplex. Output, 44 watts (22 per channel); hum, 6 db down. Response, 20-20,000 cps, ±1 db. Outputs: 4, 8, 16 hms; 2 high-impedance for tape recorder. 57/ex173/ex133/". Vith walnut-finished, metal cabinet. For 110-120 v., 60 cycle AC.

2 SU 202-J. \$15 Monthly......NET 309.95



Outstanding Hi-Fi Stereo Components by



MODEL 2420 34-WATT STEREO AMPLIFIER

latching the appearance and performance of the tuners on this age, this versatile stereo amplifier serves as the ideal "heart" or a quality home music system. Provides output of 34 watts 17 watts per channel). Response: ±1 db, 20-20,000 cps. Hum and oise: 72 db below 17 watts. Features: 2 pairs of phono inputs so 2 ecord-playing sources can be permanently connected; 2 pairs of tape head as well as tape amplifier inputs; individual bass and treble controls for each channel. Two filters "erase" scratch nd rumble without cutting response. Loudness compensation witch boosts bass at low volume settings. Outputs: 4, 8, 16 hms; 2 high-impedance. 57/6×173/6×105/6". With walnut-finished, netal cabinet. For 110-120 v., 60 cycle AC. 22 lbs.

MODEL 2440 44-WATT STEREO AMPLIFIER

Deluxe stereo amplifier with all the features you need for reprolucing fine music in your home. Provides music power output of 4 watts (22 per channel). Response: ±1 db, 20-20,000 cps. 4um and noise: 76 db below 44 watts. Has 2 pairs of phono inputs; ape head inputs plus tape amplifier inputs; separate silicon DC ilament and bias supply for added stability; etc. Outputs: 4, 8, 16 hms; 2 high-imped. 57/6x173/6x103/7. With walnut-finished, netal cabinet. For 110-120 v., 60 cycle AC. 28 lbs. 12 SU 294-J. \$8 Monthly.....

MODEL 2419 STEREO FM MULTIPLEX TUNER

ncorporating many exceptional design and performance features, this fine stereo tuner provides perfect reception of either regular FM or stereo multiplex FM broadcasts. High sensitivity of 1.7 µv for 20 db signal-to-noise ratio insures better FM stereo reception; channel separation is 30 db. "Stereo Sentry" automatically switches circuit to stereo when multiplex signal is received. Also: adjustable AFC; built-in filters for perfect, whistle-free stereo tape recording. 57/6x141/4x105/6". With walnut-finished, metal cabinet. For 110-120 v., 60 cycle AC. 12 lbs.

MODEL 2421S1 AM-FM MULTIPLEX TUNER

(Not illus.) Economy-priced stereo tuner with all the basic features you need to enjoy top-notch AM FM or FM stereo multiplex

MODEL 2441S1 AM-FM STEREO MULTIPLEX TUNER

Deluxe tuner with a host of features. FM section with sensitivity of 1.2 µv pulls in the weakest stations with low distortion. AM section's 4 µv sensitivity, wideband response and 10-kc whistle filter provides quality AM reception. Channel separation of 30







EICO Designed for Impressive Sound Quality



This moderately priced, conservatively rated 40-watt stereo amplifier is famous for its versatility and performance. Has clutch-type level, bass and treble controls for each channel; balance control; balance check switch; tape monitor switch; rumble and scratch filters; volume/loudness switch. Inputs for tape recorder, tape head, phono (2), FM-AM, AM-AM, and FM-Multiplex. Output for 3rd channel. Response: ±1 db, 12-25,000 cps. Distortion: IM, 1% at 40 watts; Harmonic, ½% at 40 watts. 4—7591 output tubes. Impedance, 4, 8, 16 ohms. 5x15 1/8x14". With metal case. For 110-120 v., 50-60 cycle AC. 35 lbs.

.....NET **79.95** 72 SU 305-J. \$5 Monthly. 72 SU 306-J. Model ST-40. Above, wiredNET 129.95

ST-70K 70-WATT STEREO AMPLIFIER KIT

Not illus. Full array of controls and inputs. Response: ±1 db, NET 99.95 72 SU 308-J. Model ST-70. Above, wired NET 149.95

Get dazzling stereo, full flexibility—and save \$67.21 off the cost of the components purchased separately. System includes: Eic. Model ST-40K 40-Watt Stereo Amplifier Kit (described fully a left); Garrard Type "A" 4-Speed Record Changer and Wool Base; New Pickering U-38AT Stereo Cartridge with .0007 Diamond Needle; and 2—Electro-Voice LT-12 12" 3-Way High Fidelity Speakers.

Garrard Type "A" Changer and Pickering Cartridge bring out the best in your records. Electro-Voice LT-12 Speakers have 12 woofer cone, exclusive "Radax" midrange, and" Sonophase VHF driver for response that extends from 40 to 18,000 cps. You also get all connecting cables to simplify hookup of your system Changer base in choice of mahogany, limed oak or walnut finish Shpg. wt., 99 lbs.
21 HF 104C-J. Specify Finish. \$11 Monthly.....ONLY 205.9!





MODEL ST-97K STEREO MULTIPLEX FM TUNER KIT

Deluxe tuner that provides excellent-quality reception of both conventional FM and stereo multiplex FM broadcasts. Employs factory prealigned front-end, IF strip and wide-band ratio-detector on a pre-wired circuit board. Multiplex circuitry gives optimum channel separation for best stereo effect. Has built-in 15-kc sub-channel carrier interference filters at each output. Stereo indicator light shows you when station you are tuned to is broadcasting in stereo. Offers AFC that "locks-in" stations, defeat switch to ease tuning. Also has Tuning, Channel Separation, Stereo/Mono, and Power On/Off Controls. Frequency Response: ±1 db, 20-15,000 cps. Sensitivity: 3 µv IHFM (1.5 µv for 20 db quieting). Signal-to-Noise Ratio: —55 db IHFM. Harmonic Distortion: 0.6% IHFM. IM Distortion: 0.20% IHFM. Has paired exthede followers. tion: 0.2% IHFM. Has paired cathode-follower stereo outputs. 51/8x151/8x 113/6". With all parts and instructions, metal case. For 110-120 v., 50-60

72 SU 310-J. Model ST-97. Above, wired......NET 149.95

MODEL ST-96K FM-AM TUNER KIT

Low-cost tuner with separate FM and AM sections. Ideall matched to MX-99 Multiplex Adapter, below. Feature "Eye-tronic" tuning eye indicators. RF, IF stages and "Eye-tronics" are pre-wired. FM section has shielded front end, AFC with defeat, broadband ratio detector Sensitivity: 1 1/2 µv for 20 db quieting. Size, 5x15 1/2x14". 1: tubes, diode and rectifier. Metal case, instructions. Fo 110-120 v., 50-60 cycle AC. 24 lbs.

72 SU 311-J. \$5 Monthly.....NET 89.9 72 SU 320-J. Model ST-96. Above, wired.... NET 129.9

MODEL MX-99 MULTIPLEX ADAPTER KIT

Plugs into any Eico FM tuner with a multiplex output jack Lets you receive stereo multiplex FM broadcasts. 91/8x63/3)



HF-SIK AMPLIFIER KIT

Low cost, 28-watt stereo amplifier kit accommodates any stereo or monophonic signal source. Provides 14 watts per channel for stereo-at the flick of a switch becomes a 28-watt monophonic amplifier. ow-level inputs in each channel for magnetic phono, tape head and mike. High evel inputs for AM tuner, FM tuner and stereo multiplex FM tuner or adapter.

Response: ±0.5 db, 10-100,000 cps at 2 watts. Distortion: Harmonic, below 1%, 30-10,000 cps at 16 watts; IM, 0.5% at 10 watts (stereo). Controls: Input Selector; Function Selector; ganged Level, ganged Bass; ganged Treble; Blend. 10 tubes, 2 rectifiers. 43/4x15x103/2". Metal case. For 110-120 v., 50-60 cycle AC. 24 lbs.

72 SU 323-J. \$5 Monthly....NET 69.95

MODEL HF-81. Above, wired. 72 SU 324-J. \$6 Monthly.....NET 109.95

WOOD CASE, Walnut, 4 lbs. 72 SX 325.....NET 13.95

ST-84K STEREO PREAMPLIFIER

Moderately-priced, offers full controls and inputs. Employs concentric tone and level controls, tape equalization, rumble and scratch filters, tape monitor feature. Response: ±0.3 db, 5-25,000 cps. Distortion: Harmonic, 0.06%; IM, 0.04%. Hum and Noise: -65 db minimum. Metal case, 5 ½x 15 1/4 x 8 3/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 8 1/2 lbs.
72 SX 364-J. \$5 Monthly..... NET 59.95

MODEL ST-84. Wired. 72 SX 375-J. \$5 Monthly......NET 89.95

HF-85K STEREO PREAMPLIFIER

Low-priced, offers virtually every control and switching facility. Features exceptionally low distortion, tape head and mike inputs, tape and phono equalization. Clutch tone and level controls. Response: ±0.3 db, 5-25,000 cps. Distortion: Harmonic, 0.1% at 3 v. out; IM, 0.2% at 0.5 v. out. IM, 0.07%. *Hum and Noise:* -60 db minimum. Metal case, 3½x12x8½". For 110-120 v., 50-60 cycle AC. 8 lbs. 72 SX 376-J. \$5 Monthly....NET 39.95

MODEL HF-85. Wired. 72 SX 377-J. \$5 Monthly......NET 64.95

WOOD CASE. For HF-85 and HF-85K. In walnut. Shpg. wt., 4 lbs.

72 SX 350. NET 12.50

HFT-92K FM-AM TUNER KIT

An excellent value, features temperature compensated components; pre-wired, pre-aligned front end for easy assembly. "Eyetronic" tuning eye, multiplex jack (see MX-99 Adapter). FM Sensitivity: 1 ½ µv for 20 db. Hum: -60 db. 3 ½x12x8 ¼". Metal case. For 115 v. AC. 12 lbs.

72 SX 335-J. \$5 Monthly..... NET 59.95

MODEL HFT-92. Above, wired.

72 SU 336-J. \$5 Monthly......NET 94.95 WOOD CASE, Oiled walnut. 4 lbs.

72 SX 350.....NET 12.50

HFT-94K AM TUNER KIT

Offers wide and narrow bandpass, tuned RF stage, "Eye-tronic" tuning indicator, ferrite-loop antenna, whistle filter. 4 tubes, tuning eye, rect. 3 1/8 x12 x8 1/2". Metal case. For 115 v. AC. 12 lbs.

72 SU 351-J. \$5 Monthly.....NET 39.95 72 SU 360-J. Above, wired NET 65.95 72 SX 350. Walnut Case. 4 lbs.....12.50

HF-89K 100-WATT AMPLIFIER KIT

Stereo basic amplifier. 4-EL-34 ouput tubes, silicon rectifiers, massive output transformers. Response: ±0.5 db, 5-100,000 cps. IM Distortion: 0.5% at 100 watts. Hum: -90 db. 6x11x15". Less case, below. For

110-120 v., 50-60 cycle AC. 37 lbs.
72 SU 378-J. \$5 Monthly.... NET 99.50
72 SU 379-J. HF-89. Wired ... NET 139.50

HF-87K 70-WATT AMPLIFIER KIT

Stereo basic amp, provides 70-watts of stereo or monophonic sound. 4-EL-34 output tubes. Same specifications as above, but IM distortion is 1% at 70 watts. 6x15x11". Less case, below. For 110-120 v., 50-60 cycle AC. 32 lbs.

72 SU 380-J. \$5 Monthly....NET 74.95 72 SU 390-J. HF-87. Wired114.95

METAL CASE. For HF-87 and 89. 4 lbs. 72 SX 391.....NET 4.50

HF-86K 28-WATT AMPLIFIER KIT

Not illus. Stereo basic amplifier provides 28 watts of stereo or monophonic sound. Williamson-type circuit with push-pull EL-84 output tubes. Response: ±0.5 db, 10-100,000 cps. *Hum:* -90 db. 5x131/x9". For 110-120 v., 50-60 cycle AC. Wt., 16 lbs.

72 SX 392-J. \$5 Monthly..... NET 43.95 72 SX 393-J. HF-86. Wired ... NET 74.95

METAL CASE. For HF-86. 3 lbs. 72 SX 498.....NET 3.95

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HFT-90K FM TUNER KIT

Unusually low in cost, the HFT-90K features factory pre-wired, pre-aligned front end. Has "Eye-tronic" tuning indicator that contracts into an exclamation point when station is perfectly tuned. Offers temperature-compensated components that provide fine sensitivity and stable, drift-free performance. Has volume and tuning controls.

Has jack for addition of multiplex adapter (see MX-99 Adapter on preceding page). Sensitivity: 1 1/2 µv for 20 db quieting. Uses 6 tubes, tuning indicator and rectifier. Size, 35/x12x81/1. Less case, below. For operation from 110-120 v., 50-60 cycle AC. Wt., 10 lbs.

72 SX 361-J. \$5 Monthly..... NET 39.95

MODEL HFT-90. Wired. Less case. 72 SU 362-J. \$5 Monthly......NET 65.95

E3 METAL CASE. For above. 3 lbs. 72 SX 363.....NET 3.95



dynakit

Quality Hi-Fi Component Kit





PAS-2 STEREO PREAMPLIFIER KIT

Performance-acclaimed stereo preamp with complete control facilities. Ideal for use with top-quality basic amplifier. Some of its many features include: "Dyna Blend" control for variable channel separation, DC-heated tube filaments and four AC convenience outlets. Has excellent transient performance.

All critical circuit phases are pre-assembled on two printed-circuit boards—assembly time is reduced to about 8 hours. Response: ± 1/2 db, 10-40,000 cps. IM Distortion: less than .05% at 2-volt output. Noise: less than 3 µv equivalent noise input on RIAA. Controls: Selector, Volume, Balance, Blend, separate Bass and Treble for each channel, Tape Monitor switch, On/Off, Loudness, Scratch Filter. Inputs: 3 stereo low-level—RIAA Phono, NARTB Tape Head, Special (for 2nd phono, tape head, mike); 4 stereo high-level—FM Multiplex, FM-AM, Aux., Tape

"STEREO 70" 70-WATT BASIC AMPLIFIER KI

Make this high-performance basic amplifier the "heart" of yo stereo music system. The "Stereo 70" delivers 35 watts per cha nel, for a full 70-watts of stereo output. Peak power is 80 watts p channel. Provides outstanding hi-fi sound—firm, perfectly d fined bass and smooth, natural highs. Use of printed circuitr detailed step-by-step instructions with pictorial diagrams cu assembly time to about 5 hours.

Designed for utmost reliability—output tubes are operated at on 65% of capacity; filter capacitors less than 85% of rated voltag Features include: matched output tubes, stereo-mono switch provision for powering two separate preamps.

Response: ±0.5 db from 10 to 40,000 cps. IM Distortion: less tha 1% at 70 watts. Hum and Noise: better than 90 db below rate output. Nickel-finished chassis; vinyl-coated charcoal brow cover. 4—EL-34's, 2—7199's, GZ-34, plus selenium rectifier. Siz (HWD), 6½x9½x13". For operation from 110-120 v., 50-60 cycle A(Shpg. wt., 32 lbs.

72 SU 237-J. \$5 Monthly.

NET 99.9

NET 129.9



Net With Case

DYNAKIT FM-1 DYNATUNER

An outstanding, top-performance hi-fi component—available in kit, "semi-kit," or factory-wired form. Now, also available with FMX-3 SK multiplex adapter installed in factory-wired Dynatuner. Renowned for stable, sensitive FM reception, free from distortion.

Superior-Quality DYNATUNER FM Tuner Kits

MODEL FM-1. Engineered to the most exacting standards, the "Dynatuner" includes all of the most important performance characteristics—high sensitivity for fringe-area use; low noise and distortion; and non-critical, drift-free tuning. Printed-circuit design and accessible, functional layout permit construction in 6 hours. EM-84 tuning eye is used to peak IF stages-no external test equipment required—all coils are pre-aligned. Planetary-drive

72 SX 242-J. Factory-Wired FM-1 Tuner With FMX-3. Multiplex adapter (right) installed. Wt., 13 lbs. NET 169.95

MODEL FM-1 SK DYNATUNER "SEMI-KIT." Same as FM-1, but

72 SX 243-J. Model FMA-2 10-Watt Monophonic Amplifier Kit. Fits inside FM-1 instead of multiplexer. Converts FM-1 to receiver. 12-35,000 cps, ±1 db. 4 lbs......NET 29.95

MODEL FMX-3 MULTIPLEX ADAPTER KIT. Fits inside "Dynatuners." Automatically switches to stereo when multiplex is

72 SX 245-J. Model FMX-3 SK "Semi-Kit." Partially wired.39.95



PAM-1 MONOPHONIC PREAMPLIFIER KIT

Full-flexibility preamp for use with any basic amplifier. Printedcircuit board cuts building time to approximately 6 hours. Response: ±0.5 db, 10 to 40,000 cps. Complete array of controls for all functions. Inputs for all music system components. Distortion: less than 0.05% IM, at 2 v.; Harmonic, unmeasurable. Requires PS-1 (below), when used with other than Dynakit amplifiers. Requires 200-400 v. DC at 3-4 ma., 6 v. AC at ¾ amp. Charcoal brown vinyl case. 2¾x12x6". Wt., 7 lbs.

72 S 248. PS-1 Power Supply Kit. Powers one or two PAM-1's, 2x 5x5". For 110-120 v., 50-60 cycle AC. Wt., 23/ lbs...... NET 8.95

MARK IV 40-W MONO BASIC AMPLIFIER KIT

Economically-priced-perfect match for PAM-1 or PAS-2 preamps. Printed-circuit board cuts assembly time to less than 3 hours. Response: ±0.5 db, 10 to 40,000 cps. IM Distortion: less than 1% at full output. Hum and Noise: -90 db. With case, 61/2x14 x5". For 110-120 v., 50-60 cycle AC. Wt., 20 lbs.

72 SU 265-J. \$5 Monthly......NET 59.95 72 SU 266-J. Above, factory wired NET 79.95

72 SU 267-J. MARK III 60-Watt Monophonic Basic Amplifier Kit. Response: ±0.5 db, 6 to 60,000 cps. IM Distortion: less than 1% at 60 watts. Hum and Noise: -90 db. Case, 63/4x9x9". For 110-



MODEL 7 STEREO CONSOLE PREAMPLIFIER

Self-powered stereo preamplifier of the highest quality. Features unsurpassed control versatility, ease of operation and finest professional workmanship. Front Panel Controls: 8-pos. Selector, 5-pos. Mode, Volume, Balance, 2—Treble, 2—Bass, Phono Equalizer—settings for RIAA, old COL LP, early 78, Tape Playback or Monitor, High Filter, Rumble Filter, and Off-On switch. A deluxe instrument suitable for use in the finest systems. Rear Panel: out-

72 SX 270. Wood Cabinet. For above. Beautifully finished oiled



MODEL 8B 70-WATT STEREO BASIC AMPLIFIER

Traditional Marantz superiority is demonstrated by this remarkable amplifier. Each channel delivers 35 watts (70-watts peak). Changing two connections allows 18-watt triode operation of each channel for unexcelled stereo. Built-in bias meter assures optimum operation at all times. Response: ±0.1 db, 20 to 20,000 cps at rated output. IM and Harmonic Distortion: less than 0.5%. 4-EL34 output tubes. Compact size, 71/4x131/2x101/2". For 105-125

MODEL 9 70-WATT MONOPHONIC BASIC. (Not illus.) Outstanding amplifier for exceptionally low distortion and high stability. Built-in self-testing arrangement. ± 0.5 db, 20-20,000 cps. $8\frac{1}{4}$ x15 $\frac{1}{4}$ x10 $\frac{1}{2}$. For 105-125 v., 50-60 cycle AC. 63 lbs. 72 SZ 277-J. \$16 Monthly......NET 324.00

NEW MODEL 10 STEREO MULTIPLEX FM TUNER

The aristocrat of stereo tuners, the Model 10 delivers the finest possible stereo FM reception. Its features and advanced standards of performance make it the ideal tuner for the audio perfectionist. Boasts an exceptionally high order of quieting and multipath ("ghost") rejection for cleaner reception with any antenna. An oscilloscope tuning indicator provides accurate station setting plus a visual display of field strength, deviation and antennasetting. Sensitivity: 2 µv, for better than 40 db quieting.

Also features: 6 IF stages—no alignment ever needed; 5 dynamic limiters; extra wideband detector; 4-section tuning gang; built-in multiplex section with automatic stereo switchover and indicator light. Less cabinet. 5 1/2 x14 1/2 x15". For 110-120 v., 50-60 cycle

72 SX 279. Wood Cabinet. For above. Beautifully finished oiled walnut. 63/x173/x171/2". Shpg. wt., 5 lbs.................... NET 33.00

133

Superior High Fidelity Components



New S-5500-II

Net

YOU GET ALL THIS: 64-Watt IHFM Stereo Outp **Full Array of Stereo Inputs** Accommodates Any Source **Dual Tone Controls Ganged Volume Controls All-Mode Function Switch Function Indicator Lights** Scratch and Rumble Filters Stereo Reverse Switch **Outputs to Stereo Recorde Attractively Styled Panel**

SPECIFICATIONS

Rated Output: 32 watts IHFM music power each channel (64 watts stereo).

Response: ±1 db, 20-20,000 cps.

Hum & Noise: 60 db down (phono input).

Distortion: IM, 11/2%; Harmonic, 1/2% at rated output.

Outputs: 4, 8, and 16 ohms per channel; pair of cathode follower outputs for stereo tape recording.

Tubes: 4-7868, 5-12AX7, 4-silicon

NEW S-5500-11 64-WATT STEREO AMPLIFIER

A triumph of engineering skill, the Model S-5500-il 64-watt stereo amplifier represents a notable achievement in the distinguished line of Sherwood high-fidelity components. Some of its superior features include: 12 db/octave scratch and rumble filters; eight high-level and four low-level inputs that accommodate virtually every sound source; damping factor of 5 to deliver optimum performance with compact high and low-efficiency speaker systems; phono sensitivity of 1.8 mv.; two cathode follower recorder outputs: friction-locked bass and treble controls for adjusting each channel separately or both

simultaneously; instant mode selection b a function switch which activates indicator lights. Controls include: Phono Leve Rumble Filter, Scratch Filter, Selecto (Tape, Phono, FM MX, AM-TV, Aux); Baance; concentric Bass, concentric Treble Loudness; Function Selector (Power Of On, Stereo Normal, Stereo Reverse, Mon S1, Mono S1 & 2). Less case. For 110-120 v 50-60 cycle AC. 25 lbs. 72 SU 400-J. \$9 Monthly ... NET 164.5

METAL CASES. Shpg. wt., 3 lbs 72 SX 516. Walnut leatherette .. NET 7.5 72 SX 476. Black flextone NET 7.5

MODEL S-5000-II 80-WATT STEREO AMPLIFIER Skillfully designed, offers full controls and inputs. Function

switch selects five modes of operation-also operates con responding group of indicator lights. Friction-locked bass and treble controls let you adjust one channel or both channel simultaneously. Six pairs of stereo inputs; two cathode followe recorder outputs, scratch and rumble filters.

Output: 40 watts-per-channel IHFM (80 watts stereo). Response ±½ db, 20-20,000 cps. Distortion: Harmonic, ½%; IM, 1½% a full output. Controls: Phono Level, Rumble Filter, Scratch Filte and Presence; Selector (Tape, Phono, FM-AM, FM-MX, Aux) Balance; dual-concentric Bass; dual-concentric Treble; Loud ness; Power Off-On; Function Selector (Stereo, Stereo Reverse Mono Ch. 1, Mono Ch. 2, Mono Ch. 1, and 8). Tape Monitory levels and the control of the control Mono Ch. 1, Mono Ch. 2, Mono Ch. 1 and 2); Tape Monitor; Loud

METAL CASES. Shpg. wt., 3 lbs.

S-2100 STEREO MULTIPLEX FM-AM TUNER

Newly designed tuner provides outstanding FM, stereo multiple: FM, and AM reception. Offers built-in multiplex circuitry, indi cator eye that tells you when you are receiving stereo multiple; program. Tuning eye shows you when you're "on station." AFC eliminates annoying drift. AM section has 2 tuned RF circuits double-tuned IF stage, delayed AVC, 10 kc whistle filter, wide narrow selectivity switch.

FM Sensitivity: 1.8 μ v IHFM. Response: $\pm \frac{1}{2}$ db, 20-75,000 cps Selectivity: 220 kc at 3 db down. Hum & Noise: 60 db below 100% modulation. Outputs: Channel A and B to stereo amp or recorder

METAL CASE. Shpg. wt., 3 lbs.

72 SU 415-J. Model S-2000-II. Similar to above, less multiplex. Has separate AM and FM tuning, pushbutton function selector. Multiplex output jack permits use with multiplex adapters. 4x14 1/4 x12". Less case (see cases listed with S-3000-IV). For 110-120 v., 50-60 cycle AC. 17 lbs. \$8 Monthly....NET 150.50



for Thrilling Music Reproduction

Net **Less Case** YOU GET ALL THIS: Full 64-Watts Stereo Inputs For Any Music Source Sensitive FM Section **Multiplex Circuit** Interchannel Hugh Indicator Lights **Ganged Volume** and Tone Controls Lo-Hi Filters Beautiful Styling



NEW MODEL S-8000-II STEREO MULTIPLEX FM RECEIVER

Combination 64 watt stereo amplifier and stereo multiplex FM tuner, loaded with deluxe features. Up-dated version of the popular S-8000, now features "Stereo-Lite" indicator that shows when you're tuned to a stereo multiplex FM broadcast; plus added power for even better stereo reproduction. A completely integrated unit, combines a sensitive FM tuner, two 32-watt amplifiers, dual preamps for phono and tape, plus wired-in multiplex circuitry. Requires only the addition of speakers to complete an outstanding system for enjoyment of stereo FM broadcasts. FM section offers interchannel

hush, AFC, tuning eye, flywheel tuning. Amplifier section has input selector switch that operates indicator lights. Ganged bass, treble and loudness controls; phono level, stereo balance controls; function selector; scratch and rumble filters. Inputs for tape, tape monitor, phono, AM tuner, aux. 4½x16½x14". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 34 lbs.
72 SU 416-J. \$15 Monthly. NET 309.50

METAL CASE. For use with above receiver. Shpg. wt., 3 lbs. 72 SU 475. Brown leatherette. . . NET 7.50

SPECIFICATIONS

Rated Output: 32 watts IHFM music power each channel (64 watts stereo.)

Response: ±1 db, 20-20,000 cps.

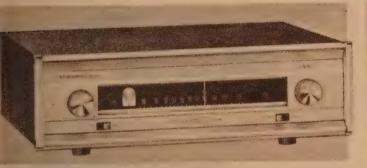
Noise: 60 db below 30 watts (phono).

Sensitivity: 1.8 µV IHFM

Distortion. FM, .33% @ 100% modulation; Overall, 1.5% @ 32 watts

Outputs: 4, 8, and 16 ohms per channel to stereo speakers.

Tubes: 21 plus 4 silicon rectifiers and tuning eve.



S-3000-IV STEREO MULTIPLEX FM TUNER

Has built-in multiplex for outstanding stereo FM; "Interchannel Hush" that quiets tuner while you tune; tuning eye for pin-point tuning; defeatable AFC; cascode RF amplifier; AGC; 2 IF amplifiers; 2 limiters. Sensitivity: 1.8 uv IHFM. Response: ±½ db, 20-20,000 cps. IM Distortion: below ½% @ 100% mod. 11 tubes, tuning eye, silicon rectifier. Less case, below. 4x14x10½". For 110-

120 v., 50-60 cycle AC. 16 lbs.

72 SU 417-J. \$8 Monthly

72 SU 418-J. \$-3000-lil. Above, less multiplex. Has multiplex.

NET 160.00 output jack. Use with S3MX Adapter, below. 15 lbs... NET 110.50

72 SU 401. Metal Case—Walnut Leatherette. 3 lbs....NET 7.50 72 SX 511. Metal Case—Black Flextone. 3 lbs......NET 7.50



MODEL A3MX MULTIPLEX ADAPTER. For S-3000-111 and S-2200. Plug in; requires no external power. 41/443/4x31/2".

Wt., 2 lbs. **72 SU 450.** \$5 Monthly.

to multiplex output jack of any FM tuner. Lights up when stereo is being received.

Model 8 FM Receiving System

FM broadcast receiving system that provides brilliant performance. Consists of FM tuner with single-channel amplifier and wide-range speaker system. Two acoustic-suspension speakers are sealed in a fiberglas-filled, solid walnut enclosure. Produce amazing "big-speaker" sound. Use with the 8-MX Multiplex Adapter/2nd channel Amplifier and 8-AS Speaker System, below, for a stereo FM receiving system. Sensitive temperature-compensated tuner section is drift-free. Amplifier section has push-pull 31/2-watt output, negative feedback for clean response. Controls: On-Off, Treble (needs no Bass control), Volume, Tuning. Has multiplex output jack, tuner output jack, phono input jack, line cord antenna. Walnut cabinets, each, 5 1/8 x 10 3/4 x 6 5/8".

MODEL 8-AS SPEAKER SYSTEM. Same as speaker system supplied in Model 8 system—use as 2nd channel.

Level control and adapter-plug. Wt., 4 lbs.

MODEL 8-MX MULTIPLEX ADAPTER/AMPLIFIER. Fully transistorized, contains multiplex, stereo preamp, and 2nd channel amplifier. With the 8-AS Speaker System and the 8 Receiver, completes a stereo FM receiving system. Has magnetic phono inputs, recorder outputs. Flip a switch-tone indicates stereo broadcast. Also Function, Master Volume, Treble controls. Walnut cabinet, $6\frac{1}{2}x7\frac{3}{8}x$ $6\frac{1}{2}$ ". For 110-120 v., AC. 7 lbs. 72 SX 482-J. \$5 Monthly......NET 95.00

Outstanding Stereo Hi-Fi Component



Exceptional dependability and superb sound reproduction highlight these distinctive music system units by Pilot



240

602SA STEREO MULTIPLEX FM-AM RECEIVER

Net

Automatic Multiplex Feature

With Case

• 30-Watt Stereo Amplifier • Center Channel Output

Stereo Indicator Light

Ranking among the finest of audio components, the Model 602SA includes an AM-FM and FM stereo multiplex tuner, plus a preamp and a powerful 30-watt stereo amplifier—all in a single, compact unit. Wideband RF and IF circuits deliver flawless response—without distortion. Unit has precision tuning indicator, stereo indicator light, full array of controls, line cord FM antenna. FM Sensitivity: 3 #v IHFM. Hum and Noise: -80 db. Distortion: 1% @ 30 watts. With case. 5 1/2 x14 1/2 x12 3/4". Output impedances: 4,8,16 ohms. For 105-120 v., 60 cycle AC. Shpg. wt., 35 lbs.

72 SU 486-J. Model 602MA FM Multiplex Receiver. As above, but less AM section. Shpg. wt., 30 lbs. \$13 Monthly...... NET 249.50

72 SU 487-J. Model 610. Same as Model 602SA above, but has 24-watt amplifier. 24 lbs. \$10 Monthly.....NET 199.50

72 SU 488-J. Model 230 24-Watt Amplifier Only. In case. 5x11 1/8x 91/2". Shpg. wt., 20 lbs. \$5 Monthly......................... NET 39.50

240 38-WATT STEREO AMPLIFIER

Net With Case

602SA

- Outstanding Sound and Flexibility
- Automatic Shutoff with Garrard Changers
- "Simpli-Matic" Test Panel for Output **Tube Balancing Without Meters**

You get a wealth of features with this marvelous 30-watt stere phonic amplifier. Provides thrilling, distortion-free stereo re production. Special center-channel connection can be use with 3rd speaker for "Stereo-Plus Curtain of Sound" or extension use. Total of 13 controls and switches give you maximum flexib ity of operation. 5 pairs of inputs accommodate all signal source —stereo or monophonic. Frequency Response: 20-20,000 cps, ± db. Harmonic Distortion: 1% at full output. Sensitivity for Full Ou put: Phono, 3 mv; Tuner, Multiplex, Tape, 110 mv. Hum and Noise—80 db. Highly attractive, black and brass styling. Supplied conplete with case. Size, 51/2x145/2x113/4". Output impedances: 4, 16 ohms. For 105-120 v., 60 cycle AC. Shpg. wt., 23 lbs.



NEW 654M STEREO MULTIPLEX FM RECEIVER

Deluxe receiver delivers 30 watts per channel for output of 60watts, and has an excellent stereo FM tuner section. Advanceddesign, balanced time-division multiplexer provides maximum channel separation. Wide-band circuitry assures clear reception of FM broadcasts. FM Sensitivity: 3 μν IHFM. Complete set of controls and inputs for stereo music systems. Amplifier Response: 10-50,000 cps, +5 db, -1.0 db. *Hum and Noise:* -80 db. *Distortion* 0.5% or less. Black and gold brass case. 51/8x145/8x123/4". Imp.: 4, 8, 16 ohms. For 105-120 v., 60 cycle AC. 34 lbs.



280B STEREO MULTIPLEX FM TUNER

An outstanding value in an economy-priced stereo FM tuner with advanced circuit refinements. Features: Pilot's balanced timedivision multiplex circuit for channel separation of 30 db; highgain IF tubes; high sensitivity, low-noise triode RF amplifier; and wide-band, minimum distortion design for excellent stereo or regular FM reception. Sensitivity: 4 µV IHFM. Also has: drift-free tuning, line cord antenna, terminals for external 72 or 300 ohm antennas. Black with gold panel. Case, 33/x93/x71/2". For 105-120 v., 60 cycle AC. Shpg. wt., 12 lbs. 72 SU 492-J. \$6 MonthlyNET 99.95

FM MULTIPLEX ADAPTERS



MODEL 200. Automatically switches to stereo during multiplex transmission. Has stereo indicator light; black and brass case. 5x14x3". For 110-120 v., 60 cycle AC. Wt., 8 lbs. 72 SU 493-J. \$5 Monthly . NET 79.50

72 SX 494-J. MODEL 100. Not illus." Non-automatic version of above. 5x12x 3". Wt., 3 lbs. \$5 Monthly... NET 49.50

285 AM-FM STEREO MULTIPLEX TUNER

An ideal addition to any home music system, this fine tuner provides all the refinements and features necessary for outstanding reception of AM, FM and stereo multiplex broadcasts. FM Sensitivity: 4 µv IHFM. Harmonic Distortion: 1% at 100% modulation. Multiplex section provides better than 30 db channel separation on stereo broadcasts. Also includes: tuning eye; stereo indicator light: built-in AM and FM antennas; inputs for 300-ohm and 72-ohm external antennas. Compact size 51/x145/x93/". With case. For 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs.

72 SU 495-J. \$8 Monthly NET 159.50

136 ALLIED

For Thrilling Sound

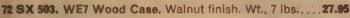
RP60 STEREO MULTIPLEX FM-AM RECEIVER

Just add a pair of speaker systems to this fine stereo tuneramplifier combination, and you'll have a complete broadcast music system—one capable of bringing you sparkling AM, FM and FM stereo broadcasts in their full frequency range. Add a record player and/or a tape program deck, and have a home music system utilizing all available sources. FM section has 2.5 µV IHFM sensitivity. Features "time division" type multiplex circuitry and "stereo minder" indicator light. Amplifier has 60watt IHFM output (30 watts per channel). Unit includes tuning eye indicator, headphone jack for stereo listening, switch to cut off speakers, built-in AM and FM antennas, rumble and scratch filters, etc. Output imp.: 4, 8, 16 ohms. 51/4x1515/6x15". Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.

72 SU 501-J. RPF60 Stereo Multiplex FM Receiver. Same as

above, but less AM section. 51/4x1515/6x15". Wt., 30 lbs. . . . 279.95

72 SX 502. EN7 Metal Case for above. Wt., 6 lbs...... NET 12.95







PX-60 FM MULTIPLEX ADAPTER



Specifically designed for use with previously manufactured Bogen FM tuners and receivers equipped with a multiplex jack. Simple plug-in connections with cables supplied no tools required! Complete with textured metal case. 41/2x 41/2x9". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 4 lbs. \$5 Monthly.
72 SU 510-J.....NET 59.95



Net Less Case

- Ideal, Complete Stereo Control Center for a Top-Quality Home Music System
- Includes a 60-Watt Stereo Amplifier and an AM-FM-MX Tuner on a Single Chassis

AP30 30-WATT STEREO AMPLIFIER

Ideal for economy music systems, this budget-priced stereo amplifier delivers a solid 30 watts of IHFM power output (15 watts per channel) for outstanding stereo music reproduction. Response: ±1 db, 20-20,000 cps. Harmonic Distortion: 0.6% at rated output. Hum and Noise: -55 db for magnetic and tape head input; -70 db for tuner and aux inputs. Features 4 position programming selector plus volume, balance, bass, treble and loudness controls. Unique blend control permits easy adjustment of channel separation—eliminates "hole-in-middle" effect. Unit also includes rumble filter, stereo reverse switch and tape recording output jack. Output imp.: 4, 8, 16 ohms. 43/4x15x115/6". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 16 lbs.

72 SU 504-J. \$5 Monthly NET 99.95

72 SX 507. EN9 Metal Case for above.

AP250 50-WATT STEREO AMPLIFIER

Offering plenty of reserve power, this versatile stereo amplifier also incorporates an array of other fine features to assure superb reproduction of stereo and monophonic program material. Has total IHFM output of 50 watts (25 watts per channel). Frequency Response: ±1 db, 20-20,000 cps. Distortion: 0.6% at rated output. Hum and Noise: -60 db for magnetic cartridge and tape head inputs; -75 db for tuner and aux. inputs. Features blend control and "blend position" indicator light for easy adjustment of channel separation and elimination of "hole-in-middle" effect. Other features: jack for stereo headphone listening; switch to cut off speakers; center channel output; tape recording output. Has 4-position programming selector, mode switch, volume, balance and coax bass and treble controls. Also includes rumble filter, loudness control, tape monitoring jack, etc. $4\frac{3}{4}$ x15x11 $\frac{5}{8}$ ". 4, 8, 16 ohms. For 110-120 v., 50-60 cycle AC. Less case, below. 20 lbs. 72 SU 506-J. \$8 Monthly NET 154.95

72 SX 507. EN9 Metal Case for above. Wt., 6 lbs.,... NET 11.95

TP250 STEREO MULTIPLEX FM TUNER

Enjoy the amazing fidelity of thrilling stereo FM broadcasts with this fine tuner. Its outstanding sensitivity of 0.85 µv for 20 db quieting assures clear, crisp reception of both regular FM and FM multiplex stations, near and far. Hum and Noise: -60 db below 100% modulation. Harmonic Distortion: 0.5% of rated output. "Stereo minder" indicator shows when stations are "stereocasting." Unit also includes tuning eye, AFC, built-in antenna and terminal connections for an external antenna of either 75 or 300 ohms. Has tuning control; AFC, mode and power switches. With attractive, gold panel. 43/x123/x10". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 16 lbs. **NET 159.95**

72 SX 509. EN8 Metal Case for above.



TYPE "A" AUTOMATIC TURNTABLE AND CARTRIDGE

Garrard's luxury record changer. Combines the smooth operation and dependability of the professional turntable with the convenience of a 4-speed changer. Handles records gently and efficiently. Features a dynamically balanced, 6 lb. cast turntable that is rotated with extreme accuracy regardless of load or voltage changes by a laboratory balanced motor. Plays at 163/3, 331/3, 45 and 78 rpm. Additional features: separate manual and automatic switches; pusher-type mechanism for maximum protection of records; precision pickup arm counterweighted for accurate tracking, with built-in stylus pressure gauge; rubber pad for damping noise and vibration. Specially designed mount permits installation without tools. Size, 16x131/4". Requires 25/" below, and 6" above motor board for mounting. With interchangeable spindles; less automatic 45-rpm spindle and wood base (see facing page for listings). For 110-

130 volts, 60 cycle AC. 19 lbs. \$5 Monthly.

20 RX 362-2-J. Type "A" and Choice of Cartridge......BOTH ONLY 79.51

73 RX 652-J. Type "A" Turntable Only......NET 79.50

FOR 1c MORE THAN THE PRICE OF A CHANGER YOU GET ONE OF THESE CARTRIDGES





Empire 880

Pickering U38AT





Shure M3D Cartridge

Knight KN-505X

PURCHASED SEPARATELY

EMPIRE 880 CARTRIDGE. Has .0007" diamond stylus. Shpg. wt., 3 oz. 73 RC 902-J......NET 42.50

SHURE M3D CARTRIDGE. Has 0007" diamond stylus. Shpg. wt., 3 oz 73 RC 900-J.....NET 44.10

PICKERING U38AT CARTRIDGE. .0007" diamond stylus. Shpg. wt., 3 oz. 73 RC 901-J......NET 46.50

KNIGHT KN-505X CARTRIDGE. .0006" diamond stylus. Shpg. wt., 3 oz 95 RC 806-J.....NET 39.95

AN ALLIED SUPER VALUE

When purchased separately, the cartridges above cost up to \$46.50. Save up to \$46.49—when you buy a Garrard changer.



GARRARD DUST COVER AND CHANGER CABINET

MOLDED VINYL DUST COVER. This lightweight, easy-to-clean cover gives invaluable protection to your record changer, keeping it free from harmful dust and lint. Attractive, transparent vinyl cover slips over changer in seconds. Molded to fit specific Garrard changers—not interchangeable. 1 ½ lbs.
73 RX 069-J. DC-3. Fits Type "A" Turntable.......NET 4.95

73 RX 670-J. DC-4. Fits AT6 Changer......NET 4.95 73 RX 071-J. DC-5. Fits Autoslim/P Changer......NET 4.95

TABLE-TOP CHANGER CABINET. Handsomely styled cabinet finished in walnut, allows you to place your changer anywhere. Gives you convenient access plus a decorative addition to your furnishings. Also protects changer from dust. Sturdily constructed of stain and scuff-resistant formica, with rich walnut finish. Functional design permits playing records with tambour door open or closed. With mounting board cut to accommodate changer to be installed. Size, 101/4x10x151/2". Wt. 15 lbs.
73 RX 064-J. TM-1. For Type A and 88 Series..... NET 34.50

73 RX 965-J. TM-2. For 210, AT-6 and Autoslim/P.... NET 34.50

73 RX 968-J. TM-3. For Any Other Garrard Model or Unit Made by Another Manufacturer. Supplied with blank mounting board that accepts most changers or turntables NET 34.50



AT-6 AUTOMATIC TURNTABLE AND CARTRIDGE

For those who want turntable precision and changer convenience in a space-saving, moderately priced unit, the AT-6 is the logical choice. Accurately plays all four speeds: 16%, 33 %, 45 and 78 rpm. Garrard's smooth-operating changer mechanism assures quiet, gentle handling of records. Oversized turntable rotates precisely at the designated speed-regardless of load or voltage change. Interchangeable spindles are furnished-long spindle for automatic playing; short spindle for manual play. Dynamically counterbalanced tubular pickup arm tracks with precision; has adjustable counterweight. Gram scale built into arm permits setting exact tracking weight. 4-pole motor; has separate controls for manual and automatic operation. Handsomely styled.

73 RX 053-J. AT-6 Turntable Only......NET 54.50

UNFINISHED MOUNTING BOARDS. Specially cut and drilled

RA-7 RECORD ADAPTER FOR TYPE "A." Clips to pusher

for custom installation of Garrard units. 1 1/2 lbs.

AUTOSLIM/P CHANGER AND CARTRIDGE

New in looks and new in performance, the Autoslim/P features a new turntable-type tubular pickup arm with plug-in head that tracks with remarkable precision. Intermixes all records of the same speed regardless of size. Additional features: separate manual and automatic controls; quiet, efficient center changing mechanism that assures gentle record handling; 4-pole shaded motor that rotates the rubber-matted turntable at exactly 16%, 33 1/3, 45 and 78 rpm. Has pickup arm clip that locks arm securely in rest position. Compact, and exceptionally functional, the Autoslim/P is only 6½" high—fine for limited space installations. Spring mounts provide isolation from external shock and vibrations. Overall size, 6½" high, 13½" wide, and 12½" deep. For mounting, requires 4½" above, and 2½" below, motor board. Neat trim styling throughout. Less 45-rpm automatic spindle and wood base (see listings below). For 110-130 volts, 60 cycle AC. Shpg. wt., 9 lbs. \$5 Monthly.
20 RX 364-2-J. Autoslim/P and Choice of Cartridge....39.51

73 RX 054-J. Autoslim/P Changer Only.....NET 39.50

YOUR GARRARD CHANGER QUALITY ACCESSORIES FOR

platform for 7", 331/3 rpm small-hole records. 11/2 lbs. 73 R 082......NET 1.50 45-RPM SPINDLE ADAPTERS. Av. wt., 10 oz.

 73 R 083. For Type "A"
 NET 3.80

 73 R 084. For AT-6
 NET 3.80

 73 R 085. For Autoslim/P
 NET 3.80

 PLUG-IN HEADS. Accept all standard cartridges. 6 oz.



WOOD BASES SPECIALLY DESIGNED TO ACCEPT GARRARD CHANGERS

- Easy to Install
- Handsome **Finishes**
- For Shelf or Table

Bases are designed to accept specific Garrard changers. Available in solid walnut only. Shpg. wt., 4 lbs. 73 RX 056C. For Type "A.".....NET 4.49 73 RX 057C. For AT-6; Autoslim/P......NET 4.49



Designed to Meet Allied Specs

> Net \$1095

> > \$5 monthly

One Knob Controls All Functions

Has Ceramic Stereo Cartridge

Shuts Off Automatically

Intermixes 10" and 12" Discs.

\$5 monthly

Has Heavy, Constant-Speed Turntable

- Includes Built-in Record Brush
- With Sonotone Stereo Cartridge
- Built-In Leveling Indicator

The Ensign Supreme—a record changer offering every kind of deluxe feature, yet selling at an extremely low price. With it, you enjoy an extra-ordinary combination of economy and quality. The arm and controls are in gleaming muted gold that contrasts pleasingly with the changer's deep-tone brown finish. The record-changing mechanism functions smoothly and quietly. Turntable rotates accurately at 33 1/3, 45, 78 and 16 1/3 rpm, while the arm—with pressure adjustment—tracks flawlessly. Built-in automatic shutoff after last record. Sonotone turnover stereo cartridge has diamond stylus for LP's and sapphire for 78's. Record brush attached to arm keeps records free of dust particles. A bubble level indicator built into the changer indicates proper leveling, assuring longer record life and high-fidelity quality. 13x12". Requires 3" below and 4" above mounting board. Less wood base and 45 rpm spindle, below. For 105-120 volts, 60

Cycle AC. Shpg. Wt., 10 lbs.	
73 RX 050-J. \$5 Monthly	NET 29.95
73 RX 062C. Wood Base. Specify choice of mahogany.	limed oak, or wal-
nut. Shpg. wt., 4 lbs	NET 4.49
73 RX 063. Unfinished Mounting Board. Wt., 1 1/2 lbs	NET 1.50
73 R 076. 45-RPM Automatic Spindle. Wt., 10 oz	NET 1.69

Low-cost stereo record changer that performs like a deluxe model. Has lightweight arm, heavy turntable and balanced 2-pole motor—handles records gently and quietly. Plays records at 4 speeds: 33 1/3, 45, 78 and 16 1/2 rpm. Includes ceramic turnover stereo cartridge and dual sapphire needles. Plays 10-12" 12-10" or 7" records, and automatically shuts itself after the last records has along the process of the same records. has played. Ribbed turntable cushion protects records. Excitingly styled in dawn gray, black and silver. Size, 131/2x12*. Requires 3" below and 4" above mounting board. Less wood base and 45-rpm automatic spindle, listed below. For operation from 105-120 volts, 60 cycles AC. Shpg. wt., 10 lbs.

Ensign 701

73 RX 051-J. \$5 Monthly.......NET 19.95 73 RX 062C. Wood Base. Specify mahogany, limed oak or walnut. Wt., 4 lbs......NET 4.49

73 RX 063. Unfinished Mtg. Board. 1 1/2 lbs......1.50

73 R 076. 45-RPM Spindle. 10 lbs......NET 1.69



WEBCOR MODEL 1041-50 STEREO DISKCHANGER

Smooth 4-speed changer for 161/3, 33 1/3, 45 and 78 rpm. Ceramic turnover stereo cartridge with sapphire needles. Features: 2-pole motor; extra-long turntable bearing; automatic shut-off; 8" turntable. Intermixes 10" and 12" records. "Rumble ribs" prevent rumble. Adjusts for stylus pressure. Beige and brown finish. Mounting space: 14"/16" wide, 13 ½" deep; 5½" above and 4" below mounting board. With two 36" connector cables. Less base, below. For 110-120 v., 60 cycle AC. Wt., 10½ lbs.

73 RX 072-JNET 27.39 MODEL 1041-51 DISKCHANGER. As above, but has .0007" 73 RX 074. Base for 1041 Changers. Brown. 4 lbs..... NET 5.68 PRE-CUT MOUNTING BOARD. Unfinished. 153/x131/4x1/2". 3 lb. 73 R 078. 45-RPM Spindle Adapter. Wt., 8 oz........NET 2.94 73 R 077. 45-RPM Inserts. Pkg. of 10. 6 oz......NET 46c

Manual Player and Cartridge Offers



This extraordinary low-cost manual player, containing a precision-built Garrard mechanism with 4-pole motor, is an Allied exclusive. Plays 4 speeds; has automatic start and stop. Just move pickup arm to start its quiet, smooth operation—automatically shuts off after playing record. Size 143/x121/2". Requires 3" above and 21/14" below mounting board. With universal plug-in head for all standard cartridges; line cord with plug; and output cables. Less base, below and cartridge (see combination offer above). For 110-120 v., 60 cycle AC. Wt., 13 lbs.

WOOD BASE. Specify mahogany, Blonde or walnut. 4 lbs. 73 RX 058CNET 4.49 73 RX 061. Mtg. Board. Unfinished. 1 ½ lbs......NET 1.50

73 RX 079. Extra Plug-In Head. Wt., 3 oz......NET 1.50

Fine Stereo Balanced Components

Deluxe Turntables and Arms For Stereo Listening



NO LARGER THAN A RECORD CHANGER!

> Net \$15000 Less Base



MODEL 488G TURNTABLE AND ARM COMBINATION

A professional turntable and arm finished in luxurious satin gold, and no larger than an average-size record changer—a royal feast for eyes and ears! The 488G Troubador plays records at 33½, 45 and 78 rpm. Includes these outstanding components: Model 408G Turntable; Model 980G Arm (described below); plus shielded output cables. Turntable; model 980G Arm (described below); plus shielded output cables. Turntable; and assures exact rotational speed. Has 5-lb. fully-balanced aluminum turntable, pushbutton power control, safety suspension mat and 45-rpm adapter. Seamless belt couples constant-speed hysterisis-synchronous motor to the turntable. Rumble, better than —65 db. Wow and Flutter, less than .07%. Supplied completely assembled; less cartridge and base. Compact size, only 7½x15¾x13¾". Requires 2¾" above mounting board and 3½" below. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 25 lbs.

73 RX 090. 488DC Dust Cover. For above turntables. 2 lbs..........NET 7.50



\$9 monthly

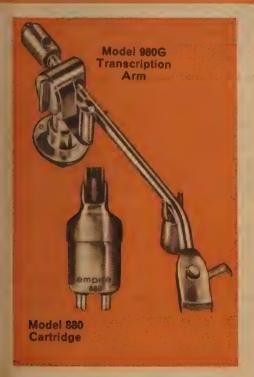
MODEL 398G COMBINATION

This superb turntable, arm and base combination, in rich satin-gold, enhances the sound of any deluxe music system. Plays 3 speeds: 33 ½, 45 and 78 rpm. Consists of: 208G Turntable with walnut base; 980G Arm (described below); phono input cables. Turntable features: belt drive; balanced hysteresis motor; motor isolation suspension; 6-lb. aluminum platter. Assembled; less cartridge. 7½x17x15°. For 110-120 v., 60 cycle AC. Wt., 25 lbs. 73 RU 992-J. \$9 Monthly... NET 175.00

73 RU 093-J. 388G. As above, but less base. Wt., 21 lbs.........NET 160.80

73 RU 094-J. 398C. Same as 398G (with base) but finished in satin chrome. 175.00

73 RU 095-J. 388C. As above, but less base. Wt., 21 lbs. NET 160.00 73 RU 096. Walnut base. 4 lbs. 15.00



DELUXE 980G PICKUP ARM

Presenting a splendid new professional arm featuring perfect dynamic balance—even tracks upside down! Maximum tracking error is ±.650.; arm resonance, 8 cps. Pressure control can be set from 0-8 grams. With overhang adjustment. Satin gold finish. Less cartridge. 5 lbs.

73 RX 098-J. \$5 Monthly.....NET 50.00

980C. TRANSCRIPTION ARM. As above, but in attractive satin chrome finish.

73 RX 099-J. \$5 Monthly......NET 50.00 73 R 100. Extra Cartridge Mtg. 3 oz...1.95

EMPIRE REPLACEMENT STYLI

Replacement diamond styli for Empire Cartridges. .0007" tip for stereo; .0027" tip for 78 RPM records. Wt., 2 oz.

Sto	ck	No.	Туре	For	Tip	NET
			S880-7RD S880-3RD	880 880	.0007"	17.50
			S880A-7RD S880A-3RD		.0007"	22.50 27.50
			S88-7RD S88-3RD	88 88	.0007"	12.50
			S108-7RD S108-3RD	108 108	.0007" .0027"	17.50

SAVE 50% WITH ALLIED'S CARTRIDGE TRADE-IN OFFER

Get the new Empire 880 or 880P cartridge—and save 50% by trading in your old cartridge—any make or model. Just send your order at the trade-in price—we'll ship your new cartridge and tell you how to send your trade-in.

MODEL 880 CARTRIDGE

Features lower dynamic mass and higher compliance—virtually eliminates distortion, makes possible wider frequency response and channel separation better than 30 db. Recommended for use with record changers, use 880P, below, for turntables. Amazingly light "Dyna-Life" stylus (.0007" diamond) is coupled with newly engineered magnetic element. Response, 10-28,000 cps. Compliance, 15x 10-6 cm/dyne. Wt., 4 oz.

73 RC 902-J. \$5 Monthly.... NET 42.50 73 RC 902-J. With Trade-In... NET 21.25

73 RC 903-J. Model 880P. Deluxe model of above—recommended for turntable use. 6-30,000 cps. Compliance, 30x10-6 cm/dyne. 4 oz. \$5 Monthly........ NET 47.50 73 RC 903-J. With Trade-In... NET 23.75

REK.O.KUT Famous Precision Hi-Fi Stereotables



MODEL N-34H TWO-SPEED STEREOTABLE

Designed for beauty and versatility, this attractive 12" turntable plays records at 33% and 45 rpm. Features highly accurate rotational speed through a hysteresis-synchronous motor, permanently lubricated, with special winding to minimize coating. Aluminum turntable is ball-bearing suspended and rotates on micro-finish shaft—virtually noise-free operation. Unique "Rekothane" drive belt is adjustable to obtain optimum tension for noise-free operation. Noise level: 57 db below average recording level; wow and flutter, less than 0.15%. Turntable has ribbed rubber mat. Less base (below) and arm (listed on facing page). Requires 41/4" clearance below motor board. 125/ex19". For 110-120 volts, 60 cycle AC, Shpg. wt., 17 lbs.

K-33H SINGLE-SPEED STEREOTABLE KIT

An easy-to-build professional-type turntable—requires only a screwdriver to assemble. Similar to the N-34H (at left), but plays at 33 ½ rpm only. Noise level: 57 db below average recording level. Wow and flutter: less than 0.15%. Size, 16x17¾ ". Requires 4¼" clearance below motor board and 3" above. Less walnut base (listed below) and arm (listed on facing page). For 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.



MODEL B-12H 3-SPEED STEREOTABLE

Expertly engineered to meet the professional specifications of the broadcast studio and dedicated audiophile, the B-12H plays records at 33 ½, 45 and 78 rpm. Features massive, custom-built hysteresis motor for unparalleled rotation accuracy under heavy-duty, continuous operating conditions. Heavy turntable cast from special aluminum alloys, carefully selected for resonance-damping qualities. Noise level: 57 db below average recording level; wow and flutter, less than 0.12%. Idler disengages in off position. With ribbed rubber turntable mat, built-in 45 rpm adapter, and neon indicator light. 17¾x16". Requires 6¼" below motor board for clearance. Less base (listed below) and arm (on facing page). For 110-120 volts, 60 cycle AC. Shpg. wt., 20 lbs.

73 RU 013-J. \$8 Monthly.....NET 149.95



SPACE-SAVING RONDINE II PRECISION TURNTABLE

MODEL R TURNTABLE ONLY. A professional turntable meeting precision specifications, yet only a little larger in size than a record changer. In view, the Model R makes an attractive furnishing—or, if desired, easily hides away. Has permanently lubricated hysteresis-synchronous motor that rotates with phenomenal accuracy at 33½ rpm. "Rekothane" drive belt adjusts for desirable tension and minimum noise. Solid aluminum turntable with rubber mat. Noise level, 57 db below average recording level. Wow and flutter, less than 0.15%. Compact size: only 14½×14½". Requires 3½" above the motor board and 4½" below. For 110-120 v., 60 cycle AC. Wt., 17 lbs.

REK: O·KUT

Pickup Arms and Accessories



PROFESSIONAL MANUAL AUTOMATIC PICKUP ARMS

MODEL S-320 12" MANUAL PICKUP ARM. Uses exclusive Omni-Balance for correct lateral balance under all conditions with any cartridge, any record and at any speed. Includes isolated counter-weight for static balance, micro-adjustment for perfect tracking pressure, plug-in car-tridge shell and shielded, pre-wired cables for minimum hum and easy installation. Less cartridge. Wt., 2½ lbs. 73 RX 020-J. \$5 Monthly....NET 34.95

AP-320 AUTOMATIC PICKUP ARM. As above, but with exclusive "Autopoise" converter that protects records and cartridge. Press button and turntable starts, arm lifts and sets precisely in groove at correct lateral balance. When record has

been played, arm retracts to rest position and turntable shuts off. With "omni-balance" counterweight, micro-adjust-ment and plug-in shell. Less cartridge. Wt., 41/2 lbs.

73 RX 021-J. \$5 Monthly.... NET 74.95

APK "AUTOPOISE" AUTOMATIC CONVERTER ONLY, Less Arm. Use with S-320, S-220 and S-210 arms. 2 lbs.

73 R 022. \$5 Monthly.....NET 49.95

MS-260 16" STUDIO PICKUP ARM. Same as S-320, less Omni-Balance. 3 lbs. 73 RX 023-J. \$5 Monthly......NET 36,95

PS-20L CARTRIDGE SHELL, 6 oz.

OMNI-BALANCE and ACOUSTI-MOUNTS

MODEL OB-1 OMNI-BALANCE, An exclusive development that assures exact lateral balance at all times. Improves stereo channel balance—stops groove jumping. Works with any Rek-O-Kut arm not already equipped with it. Easy to install-tool furnished with kit. 5 oz.

73 R 025.....NET 2.95

MODEL AF-1 ACOUSTI-MOUNTS. An excellent accessory for custom-installed Stereotables. Reduces acoustic feedback drastically by isolating Stereotables from sources of external noise. Install in minutes with only a screwdriver. Made of soft rubber. 4 per package. 2 lbs.

73 R 026...... NET PER PKG. 3.50



MODEL TD-124 TURNTABLE

A smooth-operating professional turntable with variable speed adjustment ($\pm 3\%$). Has 12", 11 $\frac{11}{2}$ -lb. aluminum-covered turntable and belt-plus-idler arrangement to isolate turntable. Also features: disengagement of idler; built-in lighted strobe and leveler. Less base and mtg. board (below) and arm. 151/2x121/8". Requires 23/4" below base plate (supplied). For 110-120 or 200-250 v., 50-60 cycle AC. 32 lbs. 73 RX 927-J. \$6 Monthly... NET 110.00

TD-121 TURNTABLE. As above but single-speed (33 1/3 rpm). 8-lb. table. Belt and idler drive isolates turntable from motor vibration. Shpg. wt., 28 lbs.
73 RX 028-J. \$5 Monthly.....NET 85.00

TD-135 TURNTABLE AND ARM

A superior 4-speed manual player that automatically shuts off. Uses same drive as the TD-124 (at left) and has 8-lb. nonmagnetic turntable. Includes adjustable speed control and professional pickup arm. Base plate, 15x12". Requires 21/2" below mtg. board. Less base and mtg. board (below) and cartridge. For 110-120 or 200-250 v., 50-60 cycle AC. Wt., 35 lbs. 73 RX 029-J. \$6 Monthly...NET 110.00

TD-111 331/3 TURNTABLE. (Not illus.). Has 12" turntable and isolated motor. Adjustable speed. Less arm, base and mtg. board. Needs 3½" below board. For 110-120 v., 60 cycle AC. Wt., 17 lbs. 73 RX 030-J. \$5 Monthly.....NET 60.00

THORENS TURNTABLE BASES and MOUNTING BOARDS

Stock No.	For	Description	Wt.	NET
73 RX 031C 73 RX 032C 73 RX 033C 73 RX 034 73 RX 035 73 RX 036	TD-124, TD-121 TD-111 TD-135 TD-124, TD-121 TD-135 TD-111	Wood base Mahogany or Walnut Wood base Mahogany or Walnut Wood base Mahogany or Walnut Unfinished mounting board Unfinished mounting board Unfinished mounting board	5 lbs. 5 lbs. 5 lbs. 3 lbs. 3 lbs. 3 lbs.	10.00 10.00 7.00 4.50 4.50

BOGEN-PRESTO



MODEL B-61 VARIABLE SPEED TURNTABLE AND ARM

. Allows Perfect "Pitch-Tuning"

Accepts Records Up to 16"

• Has 4-Pole Motor

A fine custom-crafted Swiss product, Offers continually variable speeds from 29 to 86 rpm, with settings for 163/3, 331/3, 45 and 78 rpm speeds. Rubber covered 73/4-lb. zinc-alloy 12" turntable; smooth-running 4-pole motor; gentle-action arm with micrometer-type gauge for extremely precise stylus pressure adjustment. Arm is raised by linkage to minimize record wear. Size, 151/4x131/4"; requires 21/2" above and 21/4" below mounting board. Less base (listed below) and cartridge. For 110-120 v., 60 cycle AC. Wt., 18 lbs.
73 RU 037-J. \$5 Monthly....NET 59.95

WOOD BASE, Walnut, Wt., 5 lbs. 73 RX 038 NET 5.25

ALUMINUM PLUG-IN HEAD. For monophonic or stereo cartridge. 6 oz.

73 R 039 NET 4.00

HURE

Professional Arms and Cartridges



TRADE-IN OFFER

Get the M7D (N7D) or M3D (N3D) cartridge and save 50% by trading in your old cartridge—any model. Send your order at the trade-in price-we'll ship your new cartridge and tell you how to send your trade-in.

MODEL M7D DYNETIC STEREO CAR-TRIDGE WITH N7D STYLUS. User-replaceable .0007" diamond stylus. Response: 20-20,000 cps Separation: 20 db 1000 cps. Compliance: 3.5x10-0 cm./ dyne. Tracks at'4-7 gms. 3 oz.

73 RC 913-J. Cartridge Only NET 23.52 73 RC 913-J. With Trade-In, ONLY 11.76

MODEL M3D STEREO DYNETIC CARTRIDGE WITH N3D STYLUS. Userreplaceable .0007" diamond stylus. Response: ±3 db, 20-15,000 cps. Channel Separation: 20 db @ 1000 cps. Compliance: 4.0x10⁻⁶ cm./dyne. Tracks at 3-6 gms. Shpg. wt., 3 oz.

73 RC 900-J. Cartridge Only NET 44.10 73 RC 900-J. With Trade-In, ONLY .22.05

MODEL M3D "PROFESSIONAL" CAR-TRIDGE WITH N21D STYLUS. As above, tracks at 2½ gms max. 3 oz.
73 RC 914-J......NET 46.30



M7D "CUSTOM" DYNETIC CARTRIDGE WITH N21D STYLUS, User-replaceable .0007" diamond stylus. Response: 20-20,000 cps. Compliance: 9.0x10-6 cm./dyne. Std. mtg. 3 oz. 73 RC 915. \$5 Monthly...... NET 36.01

M65 STEREO PREAMP. Converts ceramic inputs to magnetic. 6 1/8 x 315/16 x 3 1/4". For 115 v. AC. 2 lbs.

73 R 102. \$5 Monthly.......... NET 23.52

73 R 104. M61-3. As above, battery operated. With battery. 1 lb. NET 26.50

M5D MONO CARTRIDGE. User-replaceable .001" dia. stylus. Response: 20-20,000 cps. Compliance: 3x10-6 cm./ dyne. 2-6 gram tracking. 3 oz. 73 RC 916. \$5 Monthly.....NET 26.95

M77 STEREO CARTRIDGE. User-replaceable .0007" diamond stylus. Response: 20-17,000 cps. Compliance: 6.0x 10° cm./dyne. Tracks 3-6 grams. 2 oz.

73 RC 917. \$5 Monthly...... NET 26.95

73 RC 918. M33-7 "Professional Dynetic" Cartridge. As above, has 20-20,000 cps response. Tracks at 1-3 grams......35.77

73 RC 919. M33-5 "Professional Dynetic" M232 12" PICKUP ARM. Ball-bearing pivots, plug-in head, variable height. Adjustable 0-8 gram tracking. 121/6" long. Less cartridge. 2 lbs.

73 RX 105. \$5 Monthly...... NET 29.35 73 RX 106, M236 16" Arm. 21/4 lbs....31.31 73 R 107. A23H Extra Head. 4 oz.....2.35

SME-3009 12" ARM. Deluxe arm takes any cartridge. Adjustable 1/4-6 gram tracking. Ball and knife-edge bearings, cue lever. Less cartridge. 11/2 lbs.

M222 STEREO DYNETIC ARM AND CARTRIDGE. Tracks at only % gram. Response: ±2 % db, 20-20,000 cps. Separation: over 20 db at 1000 cps. Compliance:

DIAMOND REPLACEMENT STYLI. .0007" except *.0005". Wt., 2 oz.

Stock No. Type EACH 73 RC 920 73 RC 921 73 RC 922 73 RC 923 22.05 16.17 11.76 24.25 N3D N5D N7D N21D M7D M3D, 7D, 212, 216 73 RC 924 73 RC 925 73 RC 926 73 RC 927 N33-5* N33-7 N77 N22D 19.50 19.50 10.50 24.75 M33-5, 222; SME-3012 M33-7 M77 M222, SME-3012



NEW! AR 331/4-RPM TURNTABLE ENSEMBLE

Now from Acoustic Research, a completely integrated record playing ensemble that features a precision 33 1/3 rpm turntable and a 12" pickup arm mounted on a handsome oiled walnut base, even includes cables and transparent dust cover. Features a machined and individually-balanced 3.5 lb. aluminum turn-table platter that is belt-driven from synchronous motors. Turntable is shock-mounted from top plate. Meets NAB specs for wow, flutter, rumble and speed accuracy. Shock-mounted 12" pickup arm has damping mechanism that protects both record and needle if arm is accidentally dropped. Disengages when needle touches the record. Also has built-in stylus pressure gauge. Plug-in head has over-hang adjustment device—you can use it with any cartridge. Size (with cover), 51/x161/x121/4". Less cartridge. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs. 73 RX 115-J. \$5 MonthlyNET 58.00



FAMOUS CERAMIC STEREO CARTRIDGES

31 MD-7 has built-in equalizer for magnetic inputs. Others with external equalizer for ceramic or magnetic inputs.

73 RC 928. E-V 31MD-7. Tracking force: 2-6 grams. Response: ±2 db, 20-15,000 cps. Separation: 28 db. .0007" diamond stylus. 3

73 RC 929. D7-7 Replacement Stylus. 3 oz............NET 4.95

73 RC 930. New Astatic 45D. Needs 1 gram tracking force. Response: 20-20,000 cps. Separation: 35 db. .0007" diamond stylus.

73 RC 932. Sonotone 9TASD-V. Response: 20-17,000 cps. .0007* diamond stylus. Shpg. wt., 3 oz. List, \$19.25......NET 11.55 73 RC 933. N-9TSD Replacement Stylus. 2 oz......NET 2.94

o Suit Every Audio Need and Taste



STANTON MODEL 200 UNIPOISE ARM. New design based upon exclusive single pivot bearing permits tracking from 1/2 to 2 grams. Calibrated stylus force adjustnent easily adjusts arm balance in all planes. No soldering to install—requires only single hole. Overall size, 11%". With color coded leads and template. Less cartridge. Wt., 2 lbs.

13 RX 116. \$5 Monthly......NET 36.00

304 STANTON KABLEKIT, Converts nanual players and automatic changers o stereo. No soldering. 3 oz.

73 R 117.....NET 3.98

STANTON 481 A STEREO CARTRIDGE. or those who want top-quality professional pickup, the 481A is the answer. Developed as a laboratory standard, it gives accurate, reliable measurements for channel calibration. Frequency Response: 20-10,000 cps, ±1 db; 20-17,000 cps, ±2 db. ChannelSeparation: 35 db. Output: 0.8 mv. Tracking Force: 2-4 grams. For use in manual pickup arms only. With stylus and nardware. 2 oz.

IS RC 934. \$5 Monthly......NET 48.00

MODEL 481 AA. As above, but for arms that can track 1/2-21/2 grams. Output: 0.5 nv. Shpg. wt., 2 oz. 13 RC 935. \$5 Monthly......... NET 49.50

MODEL 481E. Same as 481A, but has two styli: .001" for LP and .0027 for 78's.

13 RC 936. \$5 Monthly.......NET 60.00 STANTON 400C STEREO CARTRIDGE. A new professional stereo phono cartridge utilizing the famous Fluxvalve principle—adaptable to demanding broadcast applications or deluxe home music systems. Frequency Response: 20 to 20,000 cps. Channel Separation 35 db. Output: 2.6 mv. Tracking Force: 4-7 grams. For use in record changers. Complete with stylus,

instructions and mounting hardware for easy installation. Shpg. wt., 2 oz. 73 RC 937. \$5 Monthly......NET 33.00

MODEL 400A. As above, but for pickup arm that can track 2-5 grams.

73 RC 938. \$5 Monthly......NET 39.00 MODEL 400AA. As above, but for pickup

DIAMOND REPLACEMENT STYLI

.0007" except *.001" and †.0005". 2 oz.

Stock	Mfr's	For	NET
No.	Type		EACH
73 RC 940	D-4007A	400, 481	19.50
73 RC 941		400, 481	18.00
73 RC 942		400, 481	12.00
73 RC 943 73 RC 944 73 RC 959 73 RC 960	D-3805AA† D-3807C	380, U38AT 380, U38AT 380, U38AT 380, U38AT	16.00 17.50 10.00 16.00
73 RC 961	D-3707C	90	7.50
73 RC 962		90, 371	10.00
73 RC 963		370	15.00



TRADE-IN OFFER

Get the U38AT or 380C-and save 50% by trading in your old cartridge-any make or model. Order at the trade-in price now-we'll ship your new cartridge then tell you how to send your trade-in.

U38AT STEREO CARTRIDGE. For use with automatic turntables. Excellent shielding, high output. Response: 20-17,000 cps. Separation: 35 db. Output: 2 mv. Tracking Force: 2-5 grams. 2 oz.

73 RC 901-J. Cartridge Only NET 46.50 73 RC 901-J. With Trade-In, ONLY 23.25

380C STEREO CARTRIDGE. Hermetically sealed and fully encapsulated. For record changers. Response: 20-15,000 cps.

Separation: 35 db. Output: 2.5 mv. Tracking Force: 4-7 grams. 2 oz. 73 RC 945-J. Cartridge Only.NET 29.85 73 RC 964-J. With Trade-In, ONLY.14.92

MODEL 380A. As above, but for turntables. Tracking Force: 2-5 grams.
73 RC 946. \$5 Monthly.......NET 34.50

STEREO 90. Top quality cartridge. Response: 20-12,000 cps. Separation: 20 db. Output: 1.3 mv. Tracking: 4-7 g. 2 oz.



GRADO LAB SERIES 12" PICKUP ARM. One piece, balanced gun stock walnut with precision aluminum fittings. Tracking Error: 0.8%. Tracking Force Adjustment: to 0.1 gram. Less cartridge, below. Has Four leads. Wt., 13/4 lbs.

73 RX 118. \$5 Monthly......NET 39.50

GRADO LAB SERIES STEREO CARTRIDGE. Meets lab standards. Response: 10-30,000 cps. Separation: 30 db. Output: 6

GRADO CLASSIC SERIES CARTRIDGE. Same as Lab Series

above, but has frequency response of 15 to 28,000 cps. 78 RC 949. \$5 Monthly......NET 37.50

GRADO SENATOR SERIES STEREO CARTRIDGE. Economy in price—quality in performance. Response: 18 to 24,000 cps. Channel Separation: 20 db. Output: 9 mv. 2 oz. 78 RC 953. \$5 Monthly......NET 24.95

of walnut wood. Less cartridge, below. Wt., 13/4 lbs.
73 RX 133. \$5 Monthly.......NET 44.50 73 RC 954. ADCS40 Plug-in Head for above. 2 oz.....NET 6.95 73 RX 132. ADC-85. Above arm with ADC-1 Cartridge. Shpg. ADC-1 STEREO CARTRIDGE. Precision engineered. Use with

professional pickup arms. Tracks at less than 1 gram. High compliance. Response: 10-20,000 cps. Channel Separation: 30 db. Output: 7 mv. Tracking Force: .75-1.5 grams. 8 oz.

73 RC 956. ADC-2. As above, but for changers NET 37.50

73 RC 957. ADC-1. Stylus assembly for ADC-1.2 oz... NET 25.00 73 RC 958. ADC-R2. Stylus assembly for ADC-2.2 oz. NET 15.80



Electro Voice Wolverine Components

VALUE PACKED LT12 12" 3-WAY HI-FI SPEAKER

- True 3-Way Design—12" Woofer, Radax Coaxial Cone, Sonophase VHF Horn-Type Tweeter
- Exclusive Indox Ceramic Magnet—Cast Frame
- Built-in Crossovers-40-18,000 Cps Response

The value-packed LT12 incorporates the latest refinements from the E-V laboratories It offers extended bass response from a 12" woofer cone, outstanding clarity from th exclusive Radax mid-range cone, and pleasing treble through the use of an integra Sonophase VHF horn-type tweeter. Other exclusive features: a patented, 12-ounc ceramic "Indox" magnet that is comparable to heavier magnets of conventional design 21/2" edgewise-wound ribbon-type voice coil; and a rigid die-cast frame. These delux features make the LT12 an exceptional speaker buy. Response: 40-18,000 cps-with lov distortion. Mechanical and electrical crossovers at 2000 and 3500 cps, respectively Brilliance control adjusts tweeter output-level. Total flux, 72,500 maxwells. Capacity 20 watts. Impedance, 8 ohms. Depth, 6". 15 lbs.

FAMOUS LS12 DUAL-CONE 12" SPEAKER

Low-cost 12" high-fidelity speaker that's ideal for moderatel priced stereo music systems where full-range reproduction i desired. The LS12 is also acoustically perfect for use in th Electro-Voice "Marquis" and "Aristocrat" enclosures show elsewhere in this section.

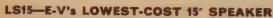
The LS12 utilizes many of the superior features of the LT1 above, plus a dual-cone design that provides an unusually clear response of 40 to 13,000 cps. The tough one-piece woofer conhas a resonant frequency of 65 cps, for powerful yet boom-fre bass. Unlike many speakers in this price class, the LS12 ha a heavy-duty frame that guarantees permanent centering of a elements for a lifetime of distortion-free sound. All internal part are precision-ground to jewel-like accuracy.

Low-silhouette frame even permits mounting in wall or ceiling Total flux, 70,700 maxwells. Power capacity, 20 watts. Impedance 16 ohms. Mechanical crossover at 4500 cps. Depth, only 33/4"

LSS WIDE-RANGE DUAL-CONE & SPEAKER

A favorite 8" speaker for low-cost music systems, and a splendic choice where larger speakers cannot be accommodated. Built to the same high standards as the 12" and 15" units above, the LS& boasts a highly authentic 55 to 13,000 cps response. Has: long throw voice-coil for surprisingly powerful bass; Radax mid-range cone: heavy-duty die-cast frame; high-efficiency edgewise wound voice coil; and low-silhouette design for easy custom mounting. Total flux, 70,700 maxwells. Cone resonance, 75 cps Power capacity, 20 watts. Mechanical crossover at 6000 cps. Impedance, 8 ohms. Depth, 31/2". Shpg. wt., 5 lbs.

71 D 124-J....



A beautifully performing, deluxe version of the LS12 above, this popular 15" speaker delivers powerful, stirring bass all the way down to 35 cps. Quality features include: a heavy-duty die-cast frame for precise alignment of critical parts; Radax mid-range cone for a 13,000 cps treble response; plus an edgewise-wound voice coil of precision-flattened ribbon conductor for 18% greater efficiency—the equivalent of up to 5 extra watts of input power! Total flux, 89,000 maxwells. Cone resonance, 50 cps. Capacity, 20 watts. Mechanical crossover at 4500 cps. Impedance, 8 ohms. Depth, 611/sz". Shpg. wt., 12 lbs.



MODEL HET HIGH-FREQUENCY STEP-UP KIT

Add these top-quality high-frequency components to any 8", 12" or 15" woofer to obtain a moderate-cost two-way speaker system that extends treble response to the limits of the audio spectrum. Also can be used in conjunction with the MF1 mid-range kit, below, to form a 3-way system. Kit includes: Model TW35 wide-angle horn-type tweeter; Model CR35 3500-cycle L-C crossover network with level control; wiring; hardware; easy-tofollow instructions. (E-V's "Marquis" and "Aristocrat" enclosures even have special cut-outs to further simplify installation.) Tweeter response is crystal-clear from 3500 to 18,000 cps. Tweeter dispersion, 180°. Power capacity, 50 watts. Impedance, 8 ohms. Tweeter, 5½x2x2¾"; crossover, 3½x3x2½". Shpg. wt., 3 lbs.

MODEL MF1 MID-FREQUENCY STEP-UP KIT

A package of first-rate mid-range components for making up a 3-way speaker systemassures improved "presence" for natural true-to-life sound quality. Kit includes: Model MR10 treble driver; Model CR10 L-C crossover network with level control; wiring; hardware; and easy installation instructions. Provides extremely smooth reproduction between 1000 and 15,000 cps; spreads mid-range notes evenly throughout the listening area—horizontal dispersion is 180°. Power capacity, 50 watts. Impedance, 8 ohms. Horn size, 4" long by 10½" wide; crossover, 3½x3x2½". Shpg. wt., 5 lbs.

Deluxe Speakers by Electro-Voice

"RADAX" COAXIAL HI-FI SPEAKERS

SP12 DELUXE 12" SPEAKER

top-performing 12" coaxial speaker for gh-quality music systems. Features inude: powerful 3-lb. Alnico V magnet; pecially treated woofer cone for exnded-range bass; Radax-type highequency radiator. Smooth response from 5-13,000 cps. Total flux, 193,000 maxwells. one resonance, 35-45 cps. Crossover, 100 cps. Capacity, 25 watts. Impedance, 3 ohms. Depth, 7 ½". 25 lbs.

SP15 DELUXE 15" SPEAKER

superb 15" coaxial speaker offering ass reproduction down to 30 cps, and lean highs to 13,000 cps. Has 4%-lb. eramic magnet. Flux, 248,000 maxwells. one resonance, 25-35 cps. 30 watts. 16 hms. 9" deep. Shpg. wt., 31 lbs.

I DU 132-J. \$5 Monthly.....NET 93.10

P15B. Similar to above, but 11/2-lb. ceamic magnet. 35-13,000 cps. 16 ohms. %" deep. Shpg. wt., 14 lbs.

I DX 133-J. \$5 Monthly.... NET 45.08

SP12B ECONOMY 12' SPEAKER

Moderately priced full-range coaxial speaker with a high-efficiency 1½-lb. ceramic magnet. Has the same Radax mid-range cone as the SP12, at left, for treble extending to 13,000 cps; bass response descends to 40 cps. Has built-in mechanical crossover at 4500 cps. Total flux, 79,600 maxwells. Cone resonance, 40-50 cps. Capacity, 20 watts. Impedance, 16 ohms. Depth, 6¾". 12 lbs. 71 DX 131-J. \$5 Monthly....NET 36.85

SP8B DELUXE & SPEAKER

E-V's finest 8" speaker. Boasts the same basic design as the 12" units above, for full-range sound in limited-space applications. Exclusive Radax principle and a double-flux 11/2-lb. ceramic magnet give a rich and full-throated 45 to 13,000 cps output. Total flux, 79,600 maxwells. Cone resonance, 50-65 cps. 6000-cps crossover. Capacity, 20 watts. Impedance, 16 ohms. 43/8" deep. 81/4 lbs.

71 D 134-J. \$5 Monthly.....NET 31.36

TRX 3-WAY HI-FI SPEAKERS

15TRXB 15" SPEAKER

hoose this 15" speaker for magnificent -way performance in one compact, udget-sparing assembly. Combines an P15B woofer and mid-range radiator with T35B VHF driver for a 35-18,000 cps reponse. Mechanical and electrical crossvers at 2000 and 3500 cps, respectively; as tweeter "brilliance" control. Flux, 9,600 maxwells. Resonance, 35-45 cps. 0 watts. 16 ohms. 7%" deep. 17 lbs. 1 DX 135-J. \$5 Monthly.....NET 83.30

DELUXE 15TRX 15" SPEAKER

I-V's best 15" 3-way speaker. A deluxe ersion of the 15TRXB above, this speaker oasts the SP15 woofer assembly, plus T35 VHF driver, X36 L-C crossover and T37 tweeter-level control. 30-19,000 cps esponse. 248,000 maxwells. 4%-lb. magnet. Resonance, 25-35 cps. 30 watts. 16 hms. 9%" deep. Shpg. wt., 33 lbs. 1 DU 136-J. \$8 Monthly...NET 151.90

12TRXB 12" SPEAKER

A fine buy in a 3-way speaker for the critical listener. Three-in-one design gives flawless 35-15,000 cps range with excellent dispersion of treble notes. Employs the SP15B woofer and T35B VHF driver. Total flux, 79,600 maxwells. Cone resonance, 40-50 cps. Crossovers at 2000 and 4500 cps; tweeter level-control. 20 watts. Impedance, 16 ohms. Depth, 61/16". Shpg. wt., 14 lbs.
71 DX 137-J. \$5 Monthly.... NET 68.60

DELUXE 12TRX 12" SPEAKER

Premium-quality version of above. Consists of SP12 woofer, integral T35 VHF driver, X36 crossover and AT37 tweeterlevel control. Response is a dazzling 35-19,000 cps. Total flux, 193,000 maxwells. Mechanical crossover at 4000 cps. Capacity, 25 watts. Impedance, 16 ohms. Depth, 61/16". Shpg. wt., 27 lbs. 71 DU 138-J. \$7 Monthly. . NET 127.40



TWEETERS, DRIVERS, WOOFERS, and ACCESSORIES













71 D 139-J. T25A MID-RANGE DRIVER. 700-3800

71 D 140-J.T250 MID-RANGE DRIVER. 600-3800 cps. 3-lb. magnet. 50 watts. 16 ohms. 57/4x6 //x 51/4". Shpg. wt., 14 ½ lbs. \$5 Monthly.. NET 83.30

71 D 141-J. SHD DIFFRACTION HORN. For units above.15x4 ½x8". Shpg.wt., 4 lbs. NET18.62

71 D 142-J.T35 VHF TWEETER. 19-kc response. 6.8 oz. magnet. 30 watts. 16 ohms. 5 ½x2" horn; 2½" dia. pot. 3½ ibs. \$5 Monthly....... NET 29.40

71 DX 143-J.T350 VHF TWEETER. 35-kc response. 1-lb, magnet. 50 watts. 16 ohms. 7 1/2 2%" horn; 3%" dia. pot. 9 lbs. \$5 Monthly NET 63.70

71 D 144-J. TC8 CONE-TYPE TWEETER. 800 cps to 15 kc. 20 watts. 16 ohms. 5' dia.; 2% deep. Shpg. wt., 2½ lbs. \$5 Monthly.........NET 24.50

71 D 145-J. TC35 CONE-TYPE TWEETER. 3500 cps to beyond audibility. 20 watts. 8 ohms. 5" dia; 27%" deep. 2% lbs. 35 Monthly.... NET 24.50

71 DU 147-J. 18W 18' WOOFER. (Not Illus.) 20-800 cps. Resonance, 20-25 cps. 4%-lb. ceramic magnet. 30 watts. 35 lbs. 16 ohms 127.40 71 D 154-J. 30W 30" WOOFER. (Not illus.) 15-300 cps. Resonance, 15-25 cps. 9½"-lb. ceramic magnet. 100 watts. 16 ohms. 13½" deep. 49 lbs. NET 220.50

CROSSOVER NETWORKS (Not illus.) X8, 6 lbs. X36, 3 lbs. X1020, 11 lbs.

Stock No.	Туре	Crossover (s)	For	NET
71 D 165-J	X36	800 3500	T25A-18W T35	10.29
71 D 169-J	X1020	100-200	30W	49.00

Electro-Voice Top-Performing Shelf Speaker System



ESQUIRE 200 3-WAY SPEAKER SYSTEM

Treat your ears to superb sound, flat over a wide frequency of 40 to 18,000 cps; treat your eyes to simplicity in styling complements any interior decoration. 10" woofer with 1 ceramic magnet produces deep, natural bass notes; 5" cone speaker assures wide dispersion of smooth mid-range; very frequency tweeter delivers sparkling high tones. Two crospoints for evenly distributed sound: at 800 cps for midspeaker; at 3500 cps for high-frequency compression d in a short time you can easily assemble kit—unfinished finishes beautifully in just the shade you want. Shelf size, sures only 14x25x13½". Power handling capacity, 50 watts pedance 8 ohms. Shpg. wt., 50 lbs. 70 DZ 609-J. \$5 Monthly......NET 9

FACTORY-ASSEMBLED. Same as above, but assembled finished in striking oiled walnut or mahogany (specify w desired) on all four sides. Wt., 50 lbs. \$7 Monthly. 70 DU 267C-J. Specify Finish......

LEYTON 2-WAY SPEAKER SYSTEM

A speaker system that offers space-saving compactness excellent fidelity at moderate cost. Only 131/4" high, 243/4" and 12" deep-can be placed anywhere: on a bookshelf, re shelf, room divider, etc. Consists of: 10" woofer and 5" shelf, room divider, etc. Consists of: 10 wooler and of frequency driver with level control—all sealed in an airenclosure featuring 3/" plywood construction throughout, ploys "air cushion" principle for distortion-free, low reso bass reproduction. Finished in genuine mahogany or walnut veneer (specify your choice). Frequency range, 1, 16,000 cps. Power handling capacity, 25 watts; can handle p to 50 watts. Requires amplifier rated at least 12 watts per char Impedance 8 ohms. Shpg. wt., 29 lbs. 70 DU 265C-J. \$5 Monthly....

REGINA 200 SLIM 2-WAY SPEAKER SYSTEM

A slender shelf system designed for modern-style living. than 6" deep, it easily fits into the shape and styling of any re The Regina 200 delivers impressive sound—full-bodied bass mid-range, highs of great purity, and clarity—throughou frequency range of 50 to 15,000 cps. Features a high complications of the complication of the complete comple 10" woofer with 1.6-lb. ceramic magnet and long-throw coil for extended bass response. Has electrical crossover a cps to the TC8 5" dynamic cone-type speaker, mounted totally isolated chamber to prevent inner action with rear v

MARQUIS 300 3-WAY SPEAKER SYSTEM

Net \$18620 \$10 monthly

Newest and smallest 2-way speaker system in the Electro-Voice family of compacts. Includes unique 8x12" bass speaker with high-compliance suspension and long-throw voice coil, and 5" cone type tweeter. Woofer and tweeter are isolated to prevent interaction. Rigid frames assure unvarying performance. Beautifully finished in oiled walnut. Size, 105/8x191/2x8". Frequency range, 60 to 15,000 cps. Crossover, 2000 cps. Capacity, 20 watts. Impedance, 8 ohms. Shpg. wt., 15 lbs.
70 DU 696-J. \$5 Monthly.....NET 51.94

A direct radiator acoustical phase inverter floor system consisting of: SP12B 12" woofer and XI crossover; TC8 treble driver; X37 crossover; T35 Super Sonax tweeter; two AT37 level controls. Frequency range, 40-19,000 cps. Size, 29 ½x 19x15 ½". In genuine mahogany or walnut veneer (specify choice). Capacity, 20 watts. Impedance, 8 ohms. Wt., 57 lbs. 70 DZ 139C-J. Specify Finish.NET 136.20 70 DU 140C-J. Marquis 63 Enclosure Only. Specify mahogany or oiled walnut finish. Wt., 27 lbs..........NET 68.60



Allied's Credit Fund Plan Increases Buying Pow

Enclosure Kits and Speakers by Electro Voice

MARQUIS KD-9 UNFINISHED SPEAKER ENCLOSURE KIT

Styled to make a becoming addition to your room's interior decoration, and expertly designed to enhance the sound of speaker components, the Marquis is an ever-popular easy-to-assemble enclosure. Employs proven bass reflex, folded-horn design for deep, natural low-frequency reproduction without need for corner placement. Accepts 12 speakers or 2 or 3-way systems without any modification. Easily assembled, you finish it to suit your taste. 29 1/2 19x14 1/2" deep. Less metal grille. 42 lbs.

70 DU 268-J. \$5 Monthly......NET 37.24

2 MARQUIS ENCLOSURE KITS WITH 2 LT-12 SPEAKERS

Save \$13.72 on this Combination Regu-larly Priced at \$137.20

A great combination at a great double savings-you save by assembling the kits, and save again on the combination price. The LT-12 3-way high-fidelity speakers deliver smooth response of 40-18,000 cps. When placed in Marquis enclosure (described above) you have a superb stereo speaker system arrangement. Less grille (AK6, above). 130 lbs.

20 DZ 222-4J. 2 Marquis Kits and 2 LT-12's...NET 123.48

REGENCY KD-4 UNFINISHED SPEAKER ENCLOSURE KIT

A splendid enclosure kit based on engineering principles which dictate that more operative space is essential for enhanced reproduction of lowest bass. The Regency enclosure kit provides ample area for use of larger, more efficient 15" speakers or 2 and 3-way systems. Utilizes indirect horn-radiator principle to extend lows and enhance highs—increases speaker power handling capacity. Can be used in corner or flat against wall. Response down to 30 cps. Easy to assemble—and you finish it with ease to the exact shade that suits you best. Supplied with easy-to-follow instructions. Less crossbar metal grille (see below). Size, 30x32x17½". Shpg. wt., 74 lbs.

2 REGENCY ENCLOSURE KITS WITH 2 LS-15 SPEAKERS

Save \$19.50 on this Combination Regularly Priced at \$195.02

A fine combination specially selected for attractive exterior, quality stereo reproduction and savings. You save on the combination price and by assembling the enclosure kits (described above). LS-15 15" speakers deliver a smooth frequency range of 35 to 14,000 cps. You finish the kit to suit your taste. Less metal grille (above). 175 lbs.

28 DZ 366-4J. 2 Regency Kits and 2 LS-15's.. NET 175.52

ARISTOCRAT KD-6 UNFINISHED SPEAKER ENCLOSURE KIT A deluxe, space-saving, folded horn corner speaker enclosure—it's extremely easy to assemble and ready for you to finish in just the shade that pleases your taste. Utilizes walls of room as an extension to its built-in horn-extends bass range by one full octave for clean, clear reproduction of lowest notes without distortion. Accepts any 12" speaker. Can also accommodate components to make up 2 or 3-way systems. With grille cloth and instructions. Less grille (see AK6 below). 29 \(\frac{5}{2} \) \(\frac{1}{2} \) \(\fra

2 ARISTOCRAT ENCLOSURE KITS WITH 2 LT-12's

Save \$15.50 Components Regularly Priced at \$155.04

An outstanding sound and price value-two LT-12's deliver excellent sound over a frequency range of 40 to 18,000 cps in perfectly complementing enclosures; you save by assembling the kits (described above) and on the combination price. Less metal grille (listed above). Wt., 74 lbs.

20 DZ 365-4J. 2 Aristocrat Kits and 2 LT-12's.NET 139.54



MID-RANGE AND HIGH-FREQUENCY COMPONENTS PACKAGES							
Stock No.	Type	Description of Components	Wt.	Lbs.	NET		
71 D 113-J	BB1	For 2-way systems (LF and treble drivers), and coax speakers having 3-lb. magnets or greater. Includes T35 VHF driver, X36 crossover, AT37 level control, wiring harness.		5	44.10		
71 DU 114-J	BB4	For existing LF drivers and coaxial speakers. Includes T25A driver, 8HD horn, X8 cross- over, AT37 level control, wiring harness.	16	6	104.86		
71 DU 115-J	BB5	Adds very high frequencies with wide dispersion. For systems having extended bass ranges. Includes T350 UHF driver, X36 crossover. AT37 level control, wiring harness.	13	3	77.42		
71 DU 117-J	BB6	Adds very high frequencies. Used with deluxe, extended-bass systems. Includes T250 driver, 8HD horn, X8 crossover, AT37 level control, wiring harness.	2	5	139.16		
71 DU 118-J	BB7	For mid-bass and treble frequencies from 200 to 10,000 cps. Ideal for use with 1 to 2-lb. magnet, full-range drivers and medium-efficiency systems. Plans for simple plywood horn extension provided. Includes TC35 driver, X36 crossover, AT37 level control, wiring harness.	14	4	38.71		
71 DU 119-J	BB8	For mid-bass and treble frequencies from 200 to 10,000 cps. Ideal for use with deluxe full-range drivers having 3-lb. magnets or more and high-efficiency systems. Plans for simple plywood horn extension are provided. Includes TC8 driver, X8 crossover,					
W 12 18 0	1 1 1	AT37 level control, wiring harness.	1:	5	61.74		

Jensen Popular Series 3-P Speaker Systems





The heart of each superb speaker system on this page is the exciting 3-P/K Component Kit. This masterpiece of acoustical design and craftsmanship, integrates 5 brilliant speakers into an ensemble producing truly magnificent high-fidelity sound.



An extraordinary speaker system, only 35%" deep. Expert acoustical design and 5-speaker arrangement, deliver full-dimensional sound to thrill every listener. Can be hung neatly on the wall, or used as an attractive floor speaker. Response is 25 cps to inaudibility. Features 10" 3-P/W1 woofer with "Polytec" plane piston radiator; M-80 midrange speaker; 2—TW-40 tweeters; and the E-10 ultra-tweeter. The M-1473 crossover network and high-frequency balance control allow you to adjust highs to satisfy your personal listening taste. Skilfully crafted, selected walnut veneer cabinet has hand-rubbed oiled finish with modern, attractive rattan grille and oak trim strips. Power-handling capacity, 25 watts. Impedance, 8 ohms. Size. 28 5/8 x21 3/2 x3 5/8". Wt., 37 lbs.



3-P/K SPEAKER COMPONENT KIT

The ultimate in high-fidelity is yours with this integrated grous peakers. Use it with any Jensen enclosure specifically crafts complement the acoustical design, or in your own cust made enclosure. Kit consists of all components used in speaker systems on this page: 3-P/W1 10" woofer (only 2 deep) with plane piston radiator for response to 20 cps, power magnet and die-cast frame; M-80 8" mid-range speaker git 600-4000 cps response; 2—TW-40.3½" tweeters reaching to 10 cps; E-10 "Ultra-Tweeter" with dome radiator, carrying response to inaudibility; M-1473 crossover with balance control. 25 w lmp., 8 ohms. Has snap-on leads. Includes vent-tube and institions for best performance. Wt., 21 lbs.

71 D 066. TW-22 Tweeter Only. 25 w. 16 ohms. 1 1/4 lbs.



MODEL 3-P/1 SPEAKER SYSTEM

A graceful shelf-type system with eye and ear appeal. Simpli placement—use on a shelf, on the floor or hang on a wall. 5½" deep, the 3-P/1 provides rich satisfying sound over an as ishing frequency range of 25 cps to inaudibility. 5-speaker defeatures 10" 3-P/1 woofer; M-80 midrange speaker; 2—TV tweeters; and the E-10 ultra-tweeter, furnishing high notes soar beyond audibility. M-1473 crossover network and high quency balance control let you shade highs to exactly suit y taste and the acoustic requirements of your room. Enclosure is carefully selected hand-rubbed oiled walnut veneer. Featuredern rattan grille and oak trip strips. Capacity, 25 was Impedance, 8 ohms. 13½x25x5½". 33 lbs.

MODEL 3-P/3 SPEAKER SYSTEM

3-P/3U SPEAKER SYSTEM. Above, but smooth-sanded-re-

for finishing. 16 1/4 x25 1/2 x11 1/4". Wt., 52 lbs.

70 DZ 792-J. \$7 Monthly.

NET 129.

3-P/3 CONSOLETTE BASE. Matching walnut base for 3systems above. 16 1/4 x10 1/2 x3 1/4". Shpg. wt., 2 lbs.

GET ALLIED'S SYSTEM PRICE

. . . on a music system consisting of components you sel yourself, and including Jensen speakers. You'll be amazed how much you save. List the system you want and write: H Manager, Allied Radio, 100 N. Western Ave., Chicago 80, Ill

70 DX 793....

Popular, Shelf-Type Speaker Systems by Jensen



MODEL TR-10 SPEAKER SYSTEM

The famous Jensen "Tri-ette" system uses outstanding 3-speaker design that delivers clean, full-bodied sound from 25 to 15,000 cps. Finished on four sides, the

-10 performs equally well on bookshelves or on floor. Has 12" lexair" woofer, P8-UM 8" mid-range, RP-103B tweeter, A-645 assover and ST-946 balance control. 13 1/8 x25x11 1/8". 30 watts. 16 ms. Walnut finish. Less base. 40 lbs.

DU 135-J. \$6 Monthly.....NET 119.50

DU 231-J. Model TR-10-U. As above, but unfinished. 40 lbs. finished bases and stands not available..... NET 94.50

DX 260. Walnut Table Base. 2" high. 2 lbs......NET 5.45

DX 788. Walnut Floor Stand. For above systems. Height of









TF-3 SPEAKER SYSTEM

n economical, contemporary-styled 3ay shelf system in oiled walnut. Four peakers provide full-range realistic reroduction from 25 cps to inaudibility. onsists of: 10" "Flexair" woofer, 2—31/2" id-range speakers and spherical tweet-. High-frequency control allows adjust-"highs" to suit your listening tastes nd/or to compensate for room acoustics. ize, 13½x23¾x11¾". Capacity, 25 watts. appedance, 8 ohms. Shpg. wt., 38 lbs.

DU 675-J. \$5 Monthly.....NET 99.50 DU 635-J. As above, unfinished . 79.50

TR-9 "SLIM-SHELF" SYSTEM

An extremely compact 3-speaker, 3-way system only 5 % deep! The TR-9 is expertly designed and crafted to offer flexibility in placement, modern styling, and superb response from 30 cps to beyond audibility -with crossovers at 600 and 4000 cps. Features 10" "Flexair" woofer with heavy "Syntox 6" ceramic magnet; 8" mid-range speaker; and the E-10 "Sono-dome" super tweeter. Also has high-frequency control. Finished in hand-rubbed oiled walnut. 13 ½x23 ½x5 ½". Capacity, 25 watts. Imp., 8 ohms. 25 lbs.

70 DU 136-J.....NET 89.50

TF-2U UNFINISHED SYSTEM

Unfinished speaker system constructed of 3/4" gum hardwood. Can be wood finished, painted or stained, to suit your personal taste. The TF-2U's full dimensional sound pleases every taste. 10" "Flexair" woofer, 2-P35-VAH tweeters and a crossover network combine to give outstanding sound from 25-14,000 cps: 13 1/2 x 23 3/4 x 11 3/8". 20 watts. 8 ohms. 36 lbs.

70 DU 574-J.....NET 64.50

KTF-2. Speaker components only, used above. With enclosure plans. 10 lbs.

70 DU 575-J. \$5 Monthly.....NET 39.75

Ultra-Compact, Space-Saving Speaker Systems

X-10 SPEAKER SYSTEM

2-way speaker system, so compact, you an place it anywhere in your home with ase. You're sure to enjoy its handsome lyling and its full-bodied sound-uses a pecial miniature woofer precisely natched to its diminutive enclosure. Masspading and unusually long cone travel rovide an excellent bass response. 3" weeter produces highs that soar all the ray to 14,000 cps.

'owerful 10-ounce "Syntox-6" magnet asures high efficiency. Rated 6 watts-proides adequate listening room sound with nly 1-watt drive. Has volume control on ront panel. Expertly finished in attractive, and-rubbed, oiled walnut. Size, 71/x13x %". Impedance, 4 to 16 ohms. Shpg. wt.,

0 DX 553-J. \$5 Monthly.... NET 29.75

X-20 SPEAKER SYSTEM

A slim-compact 2-way speaker system, only 25%" deep! Takes hardly any space when placed on a desk, table or shelfhas built-in brackets for wall mounting, if preferred. Its trim styling enhances the interior decoration of any room, and its 2-way system provides smooth, wide-range sound, from a substantial bass to a pure high frequency response.

An excellent choice for economy music systems, it uses a specially designed shallow woofer and two tweeters. Power handling capacity of 6 watts. Volume control is conveniently located at side. Finished in tasteful oiled walnut with two-tone harmonizing custom fabric. Compact size, 12%x15%x2%". Impedance, 4-16 ohms. Shpg. wt., 11½ lbs.
70 DU 137-J. \$5 Monthly.... NET 39.95



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151

Buy What You Want Now—on Allied's Credit Fund Plan

ensen Speakers Featuring "Flexair" Design



"FLEXAIR" DESIGN OFFERS DEEPER, MORE EXCITING BASS

"Flexair" design has created a shallo woofer with extraordinary deep, natur bass response (as low as 16 cps), low di tortion and great mechanical stabilit These are achieved by a special outer su pension with extreme accordion action high uniformity of air gap flux over the complete travel distance, and linear voice coil suspension for faithful reproduction of even the deepest bass tones.

H-222 WIDE-RANGE 12" COAXIAL SPEAKER

\$6250

Extended Range From 30 to 15,000 CPS

With High Frequency Level Control
 Has 1¾ lb. DP-Alnico Magnet

With Built-In Crossover Network

Offers 2000 cps Crossover Point

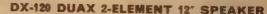
An outstanding 2-way speaker offering fine fidelity throughout an extremely wide frequency range of 30 to 15,000 cps. Compression-driver tweeter is loaded by a 6-cell Hypex horn, assuring very high efficiency, tonal purity and wide-angle dispersion. Model ST-946 level control lets you adjust the highs to suit your personal taste and the acoustics of your room. Crossover network evenly distributes frequencies below and above 2000 cps. 12" woofer delivers full-dimensional sound from 30 to 20,000 cps. 13/4-lb. high-energy DP-Alnico magnet reproduces the dynamic range of the most powerful percussive passages with extraordinary clarity and brilliant realism. Power handling capacity, 25 watts. Impedance, 16 ohms. Shpg. wt., 12 lbs. 71 DX 074-J......NET 62.50

H-223F "FLEXAIR" 12" COAX SPEAKER

A superb 2-way speaker offering the deep, rich bass response o its "Flexair" woofer (down to a low 20 cps of natural sound), and compact styling. Has built-in, efficient L-C type crossover net work at 2000 cps—plus reflexed compression driver tweeter that extends highs to 15,000 cps with great clarity. Power handling capacity, 30 watts. Impedance, 16 ohms. Requires baffle opening of 10½"; depth of 7½" behind baffle. Includes wired-in balance control for tweeter. Wt., 13 lbs.

DXF-80 "FLEXAIR" FULL-RANGE 8" SPEAKER

A perfect speaker for smaller enclosures-"Flexair" woofe assures extended natural bass response all the way down to 3 cps! Has a concentrically mounted whizzer cone element to pro duce highs of startling clarity to 13,000 cps. Also has 3/4 lb. Alnice V magnet. Crossover at 4000 cps, Power handling capacity, 20 watts. Impedance, 16 ohms. Shpg. wt., 51/2 lbs.



Offers finer sound at lower cost by expert utilization of two precisely coordinated cones, driven by a single voice coil. Both cones operate together up to a "mechanical crossover" at 4000 cps smaller cone is very effective beyond 4000 cps to deliver pure highs to 13,000 cps. The larger cone gives fine fidelity down to 40 cps. Has 1 lb. magnet. Power handling capacity, 20 watts impedance, 16 ohms. 7%" deep. Wt., 8 lbs. 71 DX 080-J. \$5 Monthly......NET 27.50

UX-120 UNAX 12" WIDE-RANGE SPEAKER

A single-cone speaker reproducing extremely clear sound through a frequency range of 40 to 12,000 cps. Has 1/2-lb. magnet Capacity, 14 watts. Impedance, 9 ohms. Shpg. wt., 6 lbs.

UX-80 UNAX 8" EXTENDED-RANGE SPEAKER

A low-cost, single-cone speaker that provides excellent fidelity. Offers extended frequency response of 50 to 12,000 cps. Capacity, 12 watts. Impedance, 8 ohms. Wt., 41/2 lbs. 71 D 092-J......NET 14.50



G-610B 15" TRIAX SPEAKER

With this 3-way speaker you hear rich natural bass notes, a smooth real mid-range and highs of great tonal purity throughout an entire range of 25 cps to beyond audibility. Uses heavy woofer and two compression-driver horn-loaded elements. Built-in dual crossover network with wired balance controls for exact adjustments. Crossovers at 600 and 4000 cps.

Has 61/2-lb. high energy DP-Alnico V magnet. Power capacity, 40 watts. Impedance, 16 ohms. 103/4" deep. Wt., 47 lbs. 71 DU 093-J. \$13 Monthly. .NET 252.75

G-600 15" TRIAX SPEAKER

An economical version of the G-610B triaxial speaker at left. Produces extremely clear sound-frequency range is 30 cps to beyond audibility. Woofer employs a 31/2 lb. magnet. Bore-mounted compression driver covers mid-range and has separate horn for 900-4000 cps. Super-tweeter carries sound up from 4000 cps to inaudibility.

Complete with built-in dual crossover network and wired balance controls for adjustments. Capacity, 35 watts. Impedance, 16 ohms. 111/16" deep. 33 lbs. 71 DU 095-J. \$7 Monthly....NET 134.50

G-610B

G-600

igh-Fidelity Speakers and Components

Jensen

K-210 2-WAY 12" COAXIAL SPEAKER

pressive fidelity at low cost is yours with this expertly-designed ray speaker. Features electrically and acoustically independ-woofer and tweeter for fine clarity and extreme realism bughout a wide frequency range of 45 to 14,000 cps. Has It-in electrical crossover network that evenly distributes sound ween woofer and direct-radiator type tweeter. Magnet is ½ lb. h-energy DP Alnico V. Power handling capacity, 14 watts. bedance, 8 ohms. Shpg. wt., 7 lbs.

K-80A 2-WAY 8" COAXIAL SPEAKER

ou need a small high-fidelity speaker that gives excellent permance, the K-80A is just what you're looking for. Delivers a quency response from 50 to 14,000 cps with exceptional realn and clarity. Has electrical crossover from woofer cone at 00 cps. 1/2-1b. high-energy Alnico V magnet. Power handling pacity, 12 watts. Impedance, 16 ohms. 4 lbs.

D 097-J. NET 17.75





Famous JENSEN Speaker Components

E-10 ULTRA-

With Built-In Crossover—
Easily Added to Any Speaker!

Mid-Range Speakers
P8-RM
P8-UM

"Flexair" Woofers
e Speakers
C12-NF
P15-LF
P8-QF

2-302A SUPER TWEETER. Compression-driver, horn-loaded be for pure highs from 4000 cps to beyond audibility. Capacity ith suitable crossover), 40 watts. Imp. 16 ohms. O.D., 23/4"; 33/4" tg. With mtg. plate. 21/2 lbs.

*-103B COMPRESSION TWEETER. For use with 2000 or 4000 s crossovers. Extends highs clearly to 15,000 cps. 30 watts. ohms. Cutout 2x6". 3x7 1/2x6%6". 3 lbs.

10 SONO-DOME ULTRA-TWEETER. Add this plastic dome

diator to your speaker and listen to highs of unparalleled auty, from 10,000 cps to beyond audibility. Complete with lilt-in crossover, mounts from back of baffle in 3\%" cutout. D., 4\%"; 2" deep. 30 watts. 4-16 ohms. 1\% lbs.

-UM MID-RANGE SPEAKER. Low-cost, direct-radiator type. noothly reproduces 600-4000 cps range. Closed housing for plation. 30 watts. 16 ohms. 4½" deep. Wt., 3 lbs.

pe, smoothly delivering uniform output of 200 to 4000 cps. osed housing. 40 watts, 16 ohms. 5" deep. Wt., 4 lbs. 12 50

D 103-J. NET 12.50

C12-NF 12" WOOFER. "Flexair" design delivers extremely wide bass response down to 20 cps. Up to 2000 cps. Resonance, 20 cps. 30 watts. 16 ohms. 13/4 lb. magnet. 9 lbs.

71 DX 104-J. \$5 Monthly......NET 37.50

P15-LF 15" WOOFER. The ultimate in bass response with "Flexair" design: 16 to 2000 cps! Resonance, 16 cps. Capacity, 40 watts. Impedance, 16 ohms. 3½-lb. magnet. 18 lbs.

P8QF 8" WOOFER. Extraordinary response from this "Flexair" woofer—36 to 2000 cps. Resonance 45 cps. Capacity, 25 watts. Impedance, 16 ohms. %-lb. magnet. 5½ lbs.

KT-33 SPEAKER COMPONENTS KIT

Complete—ready for easy installation. Consists of: C12-NF12" woofer with "Flexair" design; P8-UM direct-radiator 8" midrange speaker; RP-103B compression-driver, horn-loaded tweeter; A-645 two channel crossover; and ST-946 balance control. 20-15,000 cps. 20 watts. 16 ohms. 21 lbs.

71 DU 107-J. \$5 Monthly......NET 80.00

CROSSOVER NETWORKS

-61. Fine two-channel 600-cycle type. apacity, 40 watts. Impedance, 16 ohms. 4x6 4x4 4. Shpg. wt., 5 ½ lbs. I D 106. \$5 Monthly NET 19.75

-204. As above, but up to 2000 cps. 180° pnstant-resistance type. 40 watts. 16 hms. 4%x3½x3½". Wt., 2½ lbs.

I D 109.....NET 13.00

1-402. As above, but crossover point ccurs at 4000 cps. Cap., 40 watts, Imp., 16 hms. Shpg. wt., 3 lbs.

1 D 110.....NET 10.90

BALANCE CONTROLS

CHOICE OF TWO. Have adjustable wirewound L-pads, with bar knob and metal escutcheon plate. Mount in 111/16" hole. 36" leads. Impedance, 16 ohms. 1/2 lb.

ST-947. For tweeter or mid-range adjustment in 2, 3 and 4-way speaker systems rated up to 40 watts capacity.

71 D 111.....NET 4.50

ST-946. For adjusting the output of tweeter in 2 and 3-way systems with power rating up to 30 watts.

71 D 112.....NET 3.95



Set More Buying Power with Allied's Credit Fund Plan

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Custom-built speakers offering superb per-formance. Each is assembled by hand with finest, carefully selected materials.

The 200 Series of custom-built speakers sets an extremely high standard of performance for superb sound reproduction. Specially molded rigid cones are mounted between two highly compliant cloth suspensions (inner and outer) and can undergo the large, unhindered piston-like excursions necessary to reproduce lowest bass in compact or large cabinets. Onepiece die-cast baskets assure perfect rigidity for the entire structure. Each is specially designed for mounting to either the front or rear of the baffleboard



6201 12" COAXIAL SPEAKER. A moderately priced speaker offering extremely natural bass, full mid-range and clear bright highs. Features separate drivers for heavy woofer and compression type tweeter. Has built-in 2500 cps crossover and adjustable brilliance control on 3-ft. cable. Frequency response, 28-18,500 cps. Capacity, 35 watts. Impedance, 8 or 16 ohms. 65%" deep. 101/4 lbs.
71 DU 009-J. \$5 Monthly....NET 56.59

DIFFUSICONE 8 2-WAY SPEAKER. An excellent speaker for installations where space is at a premium and economy an important factor. Wide-angle dispersion is successfully achieved by a dual-horn radial projector plus aperture diffraction. Response, 30-15,000 cps. Capacity, 35 watts. Impedance, 8 or 16 ohms. Depth. 45/16". Shpg. wt., 5 lbs.

71 D 010-J. \$5 Monthly.....NET 27.44

308 3-WAY 8" SPEAKER. Very compact, highly efficient speaker, designed specifically for the smaller hi-fi installation. Features expertly designed woofer with extralarge voice coil for natural bass response. Has multi-element diffusicone mid-range unit, compression-type tweeter and builtin 5000 cps crossover. True-axial construction-tweeter is projected through center of woofer. Response, 30 to 17,000 cps. Power handling capacity, 35 watts. Impedance, 8 or 16 ohms. 61/8" deep. Shpg. wt., 6 lbs

71 D 011-J. \$5 Monthly.....NET 41.16

Premier Award-Winning Speaker



312 3-WAY 12" SPEAKER

A 12" Diffaxial speaker offering superb sound over an extremely wide frequency range of 28 to 40,000 cps. 12" high-compliance woofer delivers a deep, rich bass; patented, multi-element "diffusicone" ensures a full-bodied mid-range; and center-mounted super-tweeter with a horizontal dispersion of 120°, produces sparkling highs. Tweeter also features a specially constructed reflector baffle to prevent acoustic interaction between itself and woofer. L-C crossover network accurately distributes frequency bands, and adjustable brilliance control lets you adjust the higher frequencies to suit your personal listening taste and the acoustics of your room. Rigidity is maintained by 1piece die-cast basket. Power handling capacity, 35 watts. Impedance, 8 or 16 ohms. Depth, 65%. 101/4 lbs. 71 DU 006-J.....NET 71.54

2-WAY 12" SPEAKER

DIFFUSICONE 12. A fine wide-range Diffaxial speaker for music systems wh the accents are upon economy and hi est quality. With it, you enjoy excell sound over a wide frequency range. Diffusicone 12 produces a deep, perv ing bass response without "boomines Dual horn-loading at apex of cone cons erably extends the mid-range and hig frequency responses. Mechanical cro over at 1000 cps offers smooth, wide-an dispersion. Frequency response, 25-15, cps. Power handling capacity, 35 wa Impedance, 8 or 16 ohms. Mounts to eit front or rear of baffle board-no need remove any panels. Has one-piece of cast basket for perfect rigidity of the wh unit, and life-long adherence to origi performance standards. Size: diame 13"; 65%" deep. Shpg. wt., 83/4 lbs. 71 DU 007-J......NET 38.

DELUXE MODEL 315-C 3-WAY 15" SPEAKER

A 15" speaker that creates a magnificent aura of sound for supreme listening pleasure. Woofer cone features high excursion. dual-spider piston and anti-breakup, lowresonance diaphragm for a rich, natural bass. Multi-element Diffusicone mid-range section, crosses over at 1000 cps. Uses T-50

Hypersonic driver and axially mount wide-angle tweeter horn. Response, cps to inaudibility. Balance controls mid-range and treble. Magnet wt., 61/21 Capacity, 50 watts. Impedance, 8 or ohms. Depth 12". Wt., 35 lbs. 71 DU 008-J.....NET 152.



UC-82 2-WAY 8" SPEAKER. Expres designed for compactenclosures. Has 5 cps crossover. 45-14,000 cps. 25 watts. 8 16 ohms. 5½" deep. 3 lbs.

71 D 012-J.....NET 16.

UC-122 2-WAY 12" SPEAKER. (Not ille Features diffusicone element with 10 cps crossover. 40-13,000 cps. 30 watts. 8 16 ohms. 4½" deep. 5½ lbs. 71 DX 019-J. \$5 Monthly...NET 34.

UC-152 2-WAY 15" SPEAKER. Diffe cone element. 1000 cps mechanical cro over. 30-14,000 cps. 30 watts. 8 or 16 ohr 7 1/8" deep. Wt., 8 1/8 lbs.
71 DX 023-J. \$5 Monthly....NET 44.

UC-153 3-WAY 15" SPEAKER. (Not illu

Deluxe version of above. Has 30-18, cps response. UXT-5 Tweeter. 121/4 | 71 DX 624-J. \$5 Monthly...NET 81.

154 ALLIED

Woofers, Tweeters and Accessories

C-15W 15"WOOFER. Features dual voice coil-2 electrically independent voice coils on a single woofer. Dual-spider piston and 5-lb. magnet ensure clean response from below 25 to 1500 cps. 50 watts. Impedance, 4.20 ohms. 10 ½" deep. 27 lbs.

11 DU 025-J. \$5 Monthly....NET 83.30

C-15HC 15" WOOFER. High compliance woofer featuring Hiflux Uniferrox-7 magnet material in specially designed twin-

spider suspension assembly. For use with amplifier delivering 10 watts or more. Resonance, 15 cps. Response to 800 cps. 4-8 or 10-20 ohms. 81/8" deep. 60 watts.

With enclosure plans. 25 lbs.

71 DU 626-J. \$5 Monthly...NET 87.71

C-12HC 12" WOOFER. For use with amplifiers delivering 15 watts or more. Response, to 3000 cps. Cone resonance, 20 cps. Power handling capacity, 50 watts. impedance, 4-8 or 10-20 ohms. With enclosure plans. 6 % deep. 9 lbs.
71 DX 027-J. \$5 Monthly...NET 48.51

C-12SW 12" WOOFER. (Not illus.) Adjustable response to 700, 2500 or 5000 cps. Response, 30-6000 cps. Capacity, 30 watts. Imp. 8 ohms. 6\%" deep. 7\% lbs. 71 DX 028-J. \$5 Monthly....NET 38.71

C-8W 8" WOOFER. Low or mid-range

speaker. Response, 50-5000 cps. Capacity, 25 watts. 8 ohms. 41/4" deep. 3 lbs 71 D 029-J.....NET 14.70

C-8HC 8" WOOFER. (Not illus.) Similar to 12-HC. Impedance, 4-8 ohms. Capacity, 30 watts. 41/4" deep. Wt., 71/2 lbs.
71 D 947-J. \$5 Monthly.....NET 39.15

C-8M MID-RANGE 8" SPEAKER. Response, 700-5000 cps. Fine for 3-way sys-

tems. Capacity, 50 watts. Impedance, 8 ohms. 4½" deep. Wt., 3½ lbs.
71 D 048-J.......NET 16.61

T-30 MID-RANGE AND HIGH FRE-QUENCY DRIVER. For use with Cobreflex or H-600 horns. Response, 350-15,000 cps. 50 watts. 8 ohms. 1 %"-18 throat. 3 ½x 3 ½". Wt., 2 ¾ lbs.

71 D 049-J. \$5 Monthly NET 29.40

H-600 MID-RANGE AND HIGH-FRE-QUENCY HORN. For use with T-30. 600 cycle cutoff. Uniform sound from 600 cps to inaudibility. 73/4x83/4x43/4". 21/2 lbs.

COBREFLEX TWIN-FLARE HORN. (Not illus.) Mid-range for 3-way systems. Use with T-30. Crossover as low as 350 cps. $1\frac{3}{8}$ "-18 throat. $10\frac{1}{4}$ x18 $\frac{1}{2}$ x19 $\frac{1}{4}$ ". $10\frac{1}{4}$ lbs.

57 DX 566-J. \$5 Monthly....NET 23.67

HF-206 HYPERSONIC TWEETER. 2500 cps to inaudibility, 50 w. Requires N-1 filter—and N-2A crossover for 3-way systems. 8 ohms. 6x35/6x69/16". 31/2 lbs. 71 D 051-J. \$5 Monthly.....NET 32.34

UXT-5 SUPER TWEETER. (Not illus.) Use with N-1 filter. 4500-17,500 cps. 50 w. 8 ohms. 41/4x21/2x4". Wt., 13/4 lbs.

71 D 052-J. \$5 Monthly NET 20.58

N-1 HIGH-PASS FILTER. (Not illus.) Adjustable. 2500, 5000, 10,000 cps at 8 ohms; 1250, 2500, 5000 at 16 ohms; 5000, 10,000 at 4 ohms. 35/8x31/4x3". Wt., 13/4 lbs.

71 D 053-J.....NET 13.72

N-2A CROSSOVER NETWORK. (Not illus.) 300 or 700 cps at 8 or 16 onms; 700 at 4 ohms. 35/8 x3 1/4 x3". 21/4 lbs.

71 D 054-J.....NET 17.64

AP-8 LEVEL CONTROL. (Not illus.) Fits panels to 3/4". Shpg. wt., 7 oz. 71 D 055-J.....NET 3.87 Universi



SPHERICON SUPER TWEETER. Add exciting "highs" to your system in minutes. Response: 3000 to 40,000 cps. Built-in network and level control. 120° disp; 30-watt capacity; 8-ohm impedance. Walnut case.

6¾x5¼x2¾". 3 lbs.
71 D 060-J. \$5 Monthly NET 24.45

71 D 961-J. Above, Less Case 24.45



University's Mark II – A Speaker System Designed for Perfection



Only

Three superb elements, \$28910 expertly integrated, deliver a virtually uniform re-\$15 monthly sponse of 20-40,000 cps.

The Mark II—a classic creation for those who want the finest. This 15" 3-way high compliance speaker system consists of: heavy duty 15" woofer with specially designed diaphragm, Uniferrox-7 magnet and massive die-cast frame; 8" mid-range speaker with reserve excursion and power handling capacity; Sphericon tweeter offering superb response and dispersion. Also has presence and brilliance controls. Capacity, 60 watts; crossover, 150 cps; impedance, 4 and 8 ohms. Acoustically-engineered cabinet is styled in classic lines



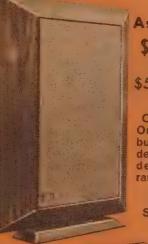
Smart Styling and Top Performance

MODEL S80 COMPACT 2-WAY SPEAKER SYSTEM

\$5581

- Exceptionally Compact—Fits Anywhere
- Impressive 40 to 16,000 cps Response
- C-8 W Woofer, 31/2" Tweeter
- Enhances Interior Decoration

Compact, with lines of stylistic beauty—augmented by natura sound that covers virtually the entire listening range—this is th S-80, a superb University creation. Contains: C-8W 8" woofe 3½" direct-radiator tweeter; and LC crossover network wit frequency distribution point at 2500 cps. Enclosure employ ported phase-inverter principle. Range, 40 to 16,000 cps. 11½ 21¾x9¾" deep. In unfinished sanded birch, for easy-finishing tyour taste. 25 watts. 8-16 ohms. 17 lbs.



\$7835 \$5 monthly

Budget-Priced

Speaker System

Compact— Only 4" deep, but specially designed to deliver full range sound.

Syl-O-Ette

SLIM 2-WAY SPEAKER SYSTEM SYL-O-ETTE. Beautiful to look at, its slender lines complement any decor.

slender lines complement any decor. The Syl-O-Ette delivers beautiful sound over a wide range of 40 to 17,000 cps. Comes with decorator cane grille cloth, but has detachable grille frame for other styles (see below). Includes piston-action 8" woofer and 6½" mid-range-tweeter unit. Mounts on wall or rests on floor (base included) or shelf. 4" depth makes decorative placement easy. Unfinished sanded birch. 23x29x4". 30 watts. 8-16 ohms. 20 lbs.

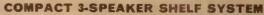
ohms. 20 lbs.
70 DU 116-J. NET 78.35
70 DU 123-J. Oiled Walnut... NET 88.15
OPTIONAL GRILLES. Wt., 2½ lbs.
70 DU 127-J. Petit Point... NET 9.75

3-SPEAKER SHELF SYSTEM

companion II. Styled and expertly engineered to offer eye-appealing appear ance and excellent sound through a widd frequency range—at moderate cost. Cabinet features molded front edging witt tastefully matching grille cloth. Consists of: 10" woofer for natural bass; 3½ speaker for smooth mid-range; 3½ tweeter to deliver purest high notes; cross over at 3000 cps; brilliance control to adjust highs to room acoustics. Range 35 to 18,000 cps. Compact size, 13½x24; 11½" deep. Finished on all four sides in genuine oiled walnut veneer. Capacity 30 watts. 8-16 ohms. 30 lbs.

70 DU 109-J. \$5 Monthly....NET 77.91

70 DU 110-J. As above, but in smoothly sanded unfinished birch.....NET 68.1



SENIOR II. For balanced sound—natural, without exaggeration throughout a wide frequency range of 30 to 22,000 cps. Balanced styling—natural, complementing lines balanced by genuine hand-rubbed oiled walnut veneer and matching grille cloth Balanced placement—blends equally well on a shelf or floor vertically or horizontally. Features: 12" woofer; 3½" midrange speaker; Sphericon super tweeter; crossover at 3000 cps; adjust able brilliance control to match room acoustics. Size, 15%x25v12½" deep. Tuned enclosure finished on all four sides. Capacity 40 watts. Impedance, 8-16 ohms. Shpg. wt., 44 lbs.



Choice of 4 Grilles

Ensemble

Medallion XII

Cabinet

SPEAKER SYSTEM AND EQUIPMENT CABINET

MEDALLION XII SPEAKER SYSTEM. Choose the style that suits your home. Features easily removable grille, replaceable by grille of different decor. Has 12" woofer, 8" mid-range speaker and Sphericon tweeter. 28-22,000 cps. 24x17x11 1/". Specify mahogany, oiled walnut or fruitwood. 40 watts. 8-16 ohms. Less grilles, base, below. System, 40 lbs.; grille, 3% lbs.

70 DU 653-J. Early American Grille. Fruitwood only......14.65
70 DU 652-J. French Provinical Grille. Fruitwood only.....14.65

70 DU 651C-J. Contemporary Grille. Specify finish...... 9.75
70 DU 592C-J. Swedish Modern Grille. Specify finish....14.65

70 DU 654C-J. System Base. 41/4". 3 lbs. Specify finish.....14.65

MEDALLION CREDENZA EQUIPMENT CABINET. Features replaceable doors matching speaker system's grilles. Overall, 29 1/4 x36 x19"; amplifier-tuner section, 9 1/4 x24 1/2 x15 1/2"; turntable section, 12 1/2 x18 1/8 x15 1/2". Specify mahogany, oiled walnut or fruitwood. Less doors, below. Cabinet, 40 lbs; Doors, 3 1/4 lbs.

70 DU 103-J. Early American Doors. Fruitwood only.....41.16
70 DU 106-J. French Provincial Doors. Fruitwood only.....41.16

70 DU 107C-J. Contemporary Doors. Specify finish......41.16
70 DU 108C-J. Swedish Modern Doors. Specify finish.....41.16

156 ALLIED

Satisfaction Guaranteed

Deluxe Quality Speakers and Systems by JBL



TRIMLINE 54 SPEAKER SYSTEM

A significant achievement in the development of an extremely compact speaker system—delivers clean, superb-quality sound over a wide frequency range. New passive low frequency radiator and LE8T speaker provide natural sound reproduction from the lowest note to the highest. In looks, the Trimline 54 is a model of enduring simplicity—at home with any decor, and so compact (only 5 \(\frac{1}{2} \) deep) that room placement is simple—hangs on a wall, sits comfortably on a shelf or on the floor. 30 to 20,000 cps. 23 1/4x 20x5 1/8". In oiled walnut. 25 watts. 8 ohms. 29 lbs.

.....NET 117.00 70 DU 196-J. \$6 Monthly...

C51 APOLLO SPEAKER ENCLOSURE. An elegant blend of classic styling and superb acoustical design. Offers smart fretwork grille. Finished in genuine hand-rubbed oiled walnut veneer. Accepts any size speaker—see adapter listing below. 26%x261/2x

C36 ENCLOSURE. Gracefully styled bass-reflex type in hand-

C38 ENCLOSURE. As above, but low boy styling. Size, 24%x 23 15 18" (with legs). Shpg. wt., 47 lbs. 70 DZ 200-J. \$5 Monthly.

C53 ENCLOSURE. Styled in lines of simplicity and finished in hand-rubbed oiled walnut veneer. 14x231/x113/" deep. Accepts 8 or 12" speaker. Shpg. wt., 30 lbs.

70 DU 201-J. \$5 Monthly......NET 48.00

C48 MADISON ENCLOSURE. Deluxe styling featuring special design and fiberglas damping for superb acoustics. Stands horizontal or vertically. In oiled walnut with matching grille. Accepts 8" speaker. 113/x233/x131/4". 41 lbs.

70 DU 202-J. \$5 Monthly......NET 63.00

LANCER HI-FI SPEAKER SYSTEMS

MODEL L33. Exciting sound and styling characterize this compact system. Features full-range LEST speaker and ported enclosure for distortion-free sound from 35 to 15,000 cps. In oiled walnut. 12 1/2 1/2 11 1/2". 20 watts. 16 ohms. 42 lbs. NET 93.00





JBL EXTENDED RANGE SPEAKERS

LE14C LINEAR EFFICIENCY SPEAKER. Reproduces entire audio spectrum. Has woofer and concentrically mounted high frequency radiator; 4" voice coil; 1200 cps crossover. 30 watts. 16 ohms. 24 lbs. 71 DU 190-J. \$8 Monthly...NET 150.00 LES 8" SPEAKER. Mounts front, rear. 30-

15,000 cps. 20 w. 16 ohms. 11 lbs. 71 D 191-J. \$5 Monthly......NET 66.00

LE10A 10" WOOFER. Has 6-lb. magnet; 3" voice coil. Resonance, 15 cps. 30 watts.

16 ohms. Shpg. wt., 15 lbs. 71 D 192-J. \$5 Monthly.....NET 57.00

LE30 TWEETER. Use only with LX3-1, below. 30 watts. 16 ohms. 4 lbs.

71 D 193-J. \$5 Monthly.....NET 57.00

D131 12" SPEAKER. 30-17,000 cps. 25 watts. 16 ohms. 5" deep. 21 lbs. 71 DU 195-J. \$5 Monthly..... NET 96.00

71 DU 196-J. D130. Same as D131, above, but 15". Resonance, 37 cps. 23 lbs. . 102.00 D123 12" SPEAKER. Response, 30-15,000 cps. 20 watts. 16 ohms. Wt., 12 lbs. 71 DU 200-J. \$5 Monthly.....NET 72.00

075 TWEETER. For 2-way systems crossing 2500 cps min. 16 ohms. 31/4". 6 lbs.

71 D 201-J. \$5 Monthly.....NET 63.00

N2600 CROSSOVER. 2500 cps. 16 or 32

ohms. 43/4x6x3 1/2". 33/4 lbs. 71 D 202-J. \$5 Monthly..... NET 27.00

71 D 194-J. LX3-1 Crossover Network. 16 ohms. Wt., 3 lbs......NET 21.00

ADAPTER KITS. For installing JBL speakers into JBL enclosures. *Not needed.

Stock No.	Type	Speakers ·	Enclosures	NET
70 DX 203	A11	LE10A, LE30, LX3-1		6.00
78 DX 204	A22	LE8, 123, 130, 075		6.00
70 DX 205		LE8	C48	6.00
70 DX 200	A24	LE14C	C36, C38	5.00
70 DX 20	A26	LE14C	C51	3.00
70 DX 23		D130, 075, N2600	C51	6.00
70 DX 23		D123, D130, D131	C51 C53	5.00
78 DX 24	A3	LE8 *LE10A-LE30-LX3-1		3,00
		*LE14C	*C53	

Wharfedale World-Famous Speakers From Britain



MODEL W60 TWO-WAY SPEAKER SYSTEM

Moderately priced, and designed to please the most critical audio connoisseur, the Wharfedale W60 is an outstanding value. Employs Wharfedale's unique sand-filled principle—two layers of wood with a completely inert filler of dry sand between them for resonance-free reproduction. This remarkable feature produces full, rich bass down to 20 cycles—without spurious resonances. Fine for floor placement with optional base, below. Sound artistry of the system stems from an effective combination of specially designed 5" tweeter and 12" woofer, critically tuned to enclosure. Finished on 4 sides. 141/4x24x13". 30 watts. 8 ohms. Specify choice of mahogany or oiled walnut, 50 lbs.

70 DU 038C-J. Specify Finish. \$6 Monthly..........NET 116.50 70 DU 039-J. Unfinished. Less divider; curved molding...101.50 4-LEG MOUNTING BASE. Mahogany or walnut. 7 lbs.

76 DU 554. As above, but unfinished NET 8.95

70 DZ 599-J. W60 Provincial. Same as W60 above, but with legs and in Fruitwood finish. \$7 Monthly......NET 134.50



Compact Model W40

Net \$5 monthly

DELUXE MODEL W70 THREE-WAY SPEAKER SYSTEM

Thrilling fidelity and tasteful styling are yours with this super 3-way system. Offers extremely wide frequency range. Consist of: 12" woofer with massive 9½ magnet for extended bass re sponse; 10" speaker for a smooth, full mid-range; 3" tweete delivering pure, widely-dispersed highs; LC crossover network with distribution points at 1500 and 6000 cps; brilliance control for high-frequency adjustment. Sturdy 3/4" hardwood enclosure two layers of wood with dry sand between. Can be placed or floor with optional base, below. 24x21x12". 4 sides finished in genuine mahogany or oiled walnut veneer (specify choice) Capacity, 30 watts. Impedance, 8 ohms. Wt., 60 lbs.

70 DZ 659C-J. Specify Finish. \$9 Monthly.......NET 164.50 70 DZ 660-J. Unfinished. Less divider; curved molding...146.5

4-LEG MOUNTING BASE. Mahogany or walnut. 7 lbs.

70 DU 599C. Specify Finish......NET 9.9 70 DU 554. As above, but unfinished......NET 8.9

MODEL W49 TWO-WAY SPEAKER SYSTEM

When the accent is on space-saving and economy, this compact speaker system admirably fits the bill-and provides exceller reproduction. Uses two specially designed and carefully tune speakers-81/2" woofer with high flux-density magnet and 5 tweeter-in sand-filled enclosure. Crossover distribution point a 1500 cps. Has high-frequency control to match room acoustics 12x24x10" deep. In mahogany or oiled walnut veneer (specif choice). Capacity, 20 watts. Impedance, 8 ohms. 45 lbs.

70 DZ 589-J. Unfinished. Utility model in smooth sanded birch hardwood, with curved molding. \$5 Monthly......NET 69.5

NEW IMPROVED 12" SPEAKER

MODEL SUPER 12 RS/DD. Wharfedale's continuing research to improve its product has paid off in a newly-engineered 12" speaker that delivers astonishingly rich, natural reproduction. Check these improved features: new, more powerful Alcomax III ceramic magnet, providing high flux density with improved flux stability; new aluminum voice coils to give maximum high frequency response—tuned ultrasonic tinning results in coils guaranteed for life of speaker; new roll foam suspension permits response below main cone resonance for maximum bass in small enclosures; new cast baskets in conjunction with foam suspension permit still larger cone excursions under airtight conditions. Die-cast frame and foamconstructed cone remain, plus all other Wharfedale features. Frequency range of 30-18,000 cps. Cone resonance, 28-33 cps. Capacity, 40 watts. Impedance, 12-15 ohms. Depth 7". 22 lbs.

71 DU 183-J. \$5 Monthly.... NET 89.50

FULL-RANGE 8" SPEAKER

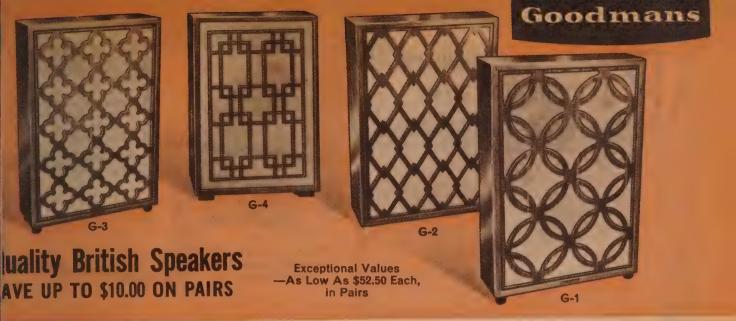
MODEL SUPER 8 FS/AL. Expertly de signed to deliver impressive sound you'd expect from a larger, more expensive speaker. Features aluminum voice coi and foam suspension. Frequency range 40 to 14,000 cps. Power handling capacity 15 watts. Imp., 10-15 ohms. Bass reson ance, 55-65 cps. Depth 4". 5 lbs. 71 D 184-J. \$5 Monthly.....NET 26.5(

SUPER 3 HI-FI TWEETER

Extends and purifies the high-frequency range of any speaker system. Delivers sparkling 3000 to 20,000 cps frequency range of distilled treble. Capacity, 20 watts. Impedance, 80 hms. Diameter, 35%"

Depth, 25%. Wt., 4½ lbs.
71 D 185-J. \$5 Monthly.....NET 26.50 4-mfd FREQUENCY-DIVIDING CAPAC-ITOR. For using Super 3 tweeter with

super 12 RS/DD or other full range speaker. Provides 3000 cps crossover. 4 oz.



G-3 5-SPEAKER 3-WAY SYSTEM

straordinary sound, styling and versatility are yours with this recision manufactured speaker system. Consists of: three 8" river-woofers with "Rigidflex" hyperbolic floating piston cones mid-range speaker; 3 1/2" ultra-high tweeter; crossover network ith distribution point at 5000 cps; tuned port. These coordinated emponents deliver 40 to 17,000 cps of superb sound-from full atural bass notes through a smooth mid-range, up to glittering, ure highs. Placement is easy—can be used on a shelf or on the oor, vertically or horizontally to enhance room decoration. 5x17x51/" deep. Genuine hand-rubbed oiled walnut veneer apacity, 45 watts. Impedance, 16 ohms. With unattached 1" egs for floor use. 25 lbs. \$5 Monthly.

DU 193-J. 2 for \$149.00..... NET EACH 79.50

IODEL G-4 3-WAY SYSTEM. Same as system above, but with hree 10" driver-woofers for even more natural, distortionless ass response. Compact design—28x20x61/4" deep. Cap., 60 vatts. Complete with unattached 1" legs for vertical or horizontal oor placement. 30 lbs. \$5 Monthly.

DU 194-J. 2 for 169.00......NET EACH 89.50

G-1 3-SPEAKER 3-WAY SYSTEM

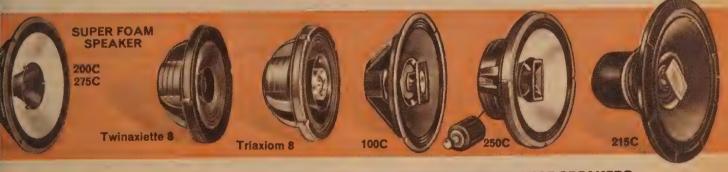
Slim styling, big performance and moderate price combine to make this fine speaker system an extraordinary value-and a grand addition to any monophonic or stereo music system. Features an 8" woofer with "Rigidflex" floating piston hyperbolic cone; 6" mid-range speaker; 3½" ultra high-frequency tweeter; crossover network for distribution at 5000 cps; and tuned port. Provides 40 to 17,000 cycles of superb sound, from lowest to highest tones—with low distortion. Can be placed on shelf or floor, vertically or horizontally. Only 5 1/4" deep, space allocation is easy. The G1's smart styling adds a pleasing decorator touch to your room. Genuine hand-rubbed oiled walnut veneer. 25x17x 5 ½". Capacity, 15 watts. Impedance, 16 ohms. With unattached 1" legs for floor placement. Wt., 20 lbs. \$5 Monthly.

70 DU 190-J. 2 for 105.00. NET EACH 56.50

MODEL G2 3-WAY SYSTEM. Same as system above, but with

10" driver-woofer for greater bass capacity. Compactly designed—size, only 25x17x6 \(\frac{1}{2} \)" deep. With unattached 1" legs for floor placement. 20 watts. 25 lbs. \$5 Monthly.

70 DU 192-J. 2 for 111.00. NET EACH 59.50



SUPER FOAM SPEAKER

"WINAXIOM 200C 12" SPEAKER. Fea-ures new "super foam" cone to assure exceptionally uniform response in the critical bass region of 30 to 2000 cps. Over-Ill frequency range, 30 to 18,000 cps, with rossover at 2000 cps. Additional features: ow-resonance floating piston woofer; 'axiom plastek propagator" for uniform einforcement of 2000-18,000 cps range; wo-way point source; 1-lb. efficient cylindrical ceramic magnet. Capacity 20 watts. mpedance, 16 ohms. Wt., 10 lbs.

TWINAXIOM 275C 12" SPEAKER. Heavy duty version of 200C speaker above. Has 13/4 lb. cylindrical ceramic magnet and power handling capacity of 30 watts. Resonance, 35 cps. Frequency range, 30 to 18,000 cps. 16 ohms. Wt., 14 lbs.

71 DU 181-J. \$5 Monthly.....NET 34.50

EXPERTLY DESIGNED WIDE-RANGE SPEAKERS

TWINAXIETTE 8. Heavy-duty dual cone 8" speaker delivering a smooth response from 40 to 18,000 cps. Features Rigidflex hyperbolic free-edge cone suspension and die-cast chassis. 15 watts. 16 ohms. Wt., 8 lbs.

71 D 177-J.....NET EACH 18.95 2 SPEAKERS FOR......33.90

TRIAXIOM 8. 3-way 8" speaker with response from 40 to 20,000 cps. Electrical crossover at 5000 cps—compression tweeter. Tone control on 30" cable. Capacity, 15 watts. 16 ohms. 10 lbs.

71 D 175-J. \$5 Monthly..... NET 29.50

TRIAXIOM 100C. 12" 3-way speaker featuring 3 radiators concentrically placed to produce smooth sound from 20 to 20,000 cps. Electrical crossovers at 2000, 5000 cps. 20 watts. 16 ohms. 18 lbs.

71 DU 172-J. \$5 Monthly.... NET 34.50 250C. Heavy duty, 12" 3-way speaker. Features: 21/2 lb, ceramic magnet; super foam woofer; "axiom plastek" radiator; compression horn tweeter. Smooth response from 20 cps beyond audibility. Crossovers at 2000, 5000 cps. Resonance, 35 cps. 30 watts. 16 ohms. Wt., 25 lbs.

71 DU 179-J. \$5 Monthly..... NET 59.50

550C. Deluxe 12" extra-heavy duty model of above. Has 5-lb. ceramic magnet. Capacity, 50 watts. 16 ohms. 35 lbs

71 DU 171-J. \$5 Monthly..... NET 79.50

TRIAXIOM 215C. 15" 3-way speaker with response from 20 cps beyond audibility. Rigidflex woofer, "axiom plastek" radiator and compression horn tweeter assure pure sound quality. Crossovers at 2000 and 5000 cps. Resonance, 25 cps. 30 watts. Impedance, 16 ohms. 30 lbs.

71 DU 182-J. \$5 Monthly.....NET 69.50





ACOUSTIC SUSPENSION FOR BETTER QUALITY

This extraordinary technique utilizes sealed-in air within the small-size enclosure as a pneumatic spring for the speaker cone during large excursions on very low bass notes. Exceptionally high power-handling capacity of these systems make them ideal for most high-fidelity amplifiers.

AR-2A ACOUSTIC SUSPENSION SPEAKER SYSTEM

As Low As

\$10900

- Extremely Clean Bass Reproduction
- Super-Tweeter Delivers Purest Highs
- · Sealed, Fiberglas-Filled Cabinet
- · Finished on all Four Sides

Acoustic suspension design in this exciting 3-way speaker system provides a rich natural bass response; two 5" speakers deliver a full-bodied mid-range; dome-type super tweeter produces sparkling clear highs. Sealed fiberglas-filled cabinet of braced 3/4" hardwood veneer is available in choice of finishes (all four sides): natural birch, mahogany or oiled walnut— and also unfinished. Requires amplifier rated at least 20 watts (for stereo, amplifier should be rated 20 watts per channel). Response, 30 to 20,000 cps. Crossovers at 2000 and 7500 cps. Size, 13 1/2×24×11 1/2". Dispersion, 90°. Impedance, 8 ohms. 38 lbs.

70	DU 600-J.	Natural Birch. \$7 MonthlyNET 122.00	
70	DU 601-J.	Mahogany. \$7 Monthly	
70	DU 027-J.	Oiled Walnut. \$7 Monthly	
70	DU 028-J.	Unfinished. \$6 Monthly	

AR-2 ACOUSTIC SUSPENSION SPEAKER SYSTEM

AR-3 ACOUSTIC SUSPENSION SPEAKER SYSTEM

When space is at a premium and the finest quality sound is desired, this superb 3-way speaker system is the answer. Has 12 woofer with 3½-lb. magnet; 2" mid-range dome radiator with 3½ lb. magnet; and dome tweeter. Crossovers at 1000 and 7500 cp: Has level controls. 38-20,000 cps (±2 db). Needs amplifier rate 25 watts or more (each channel for stereo). 3 finishes, all for sides—or unfinished. 14x25x11¾". 4 ohms. 60 lbs.

70	DZ 1	149-J.	Natural Birch. \$11 MonthlyNET	216.0
70	DZ 1	148-J.	Mahogany. \$11 Monthly . A. M NET	T 216.0
70	DZ 6	624-J.	Oiled Walnut. \$12 Monthly NET	T 225.0
70	DZ (902-J.	Unfinished. \$11 MonthlyNET	T 203.0

AR-1 ACOUSTIC SUSPENSION SPEAKER SYSTEM

Incomparable sound quality, lines of classic simplicity and compact size characterize this famous 3-way speaker system. Features air-damped 12" woofer for remarkably natural extended bass; 8" mid-range and high-frequency unit for medium and high notes of distilled purity; and 1000 cps crossover network. Frequency range, 38 to 13,000 cps of clean sound throughout. Requires amplifier rated at least 30 watts (for stereo, 25 watts per channel); maximum, 60 watts (for stereo, 50 watts per channel). Three finishes available—all four sides finished for ease of placement. 14x25x11 ½". Imp. 4 ohms. 52 lbs.

70	DZ	150-J.	Natural Birch. \$10 Monthly NET 185.0	
70	DZ	151-J.	Mahogany. \$10 Monthly	ĭ
			Oiled Walnut, \$10 Monthly NET 194.0	

ALTEC 755-C 605A

Speakers That Meet Exacting Professional Standards

MODEL 605A 15" DUPLEX SPEAKER

A speaker designed for those who insist upon the finest in audio reproduction. The 605A is composed of two mechanically and electrically independent loudspeakers mounted on a single frame for compactness, point-source relation, phasing and installation ease. Uses high compliance cone suspension. Delivers frequency range of 20 to 22,000 cps, flat from the lowest to highest note. Bass section has 3" voice coil and 2½ lb. magnet; treble section, 1¾" aluminum voice coil. Exponential multi-cellular horn produces 40° vertical and 90° horizontal dispersion. Includes 1600 cycle crossover network. Power handling capacity, 35 watts. Impedance, 16 ohms. Wt., 37 lbs.

755-C 8" SPEAKER

Compact speaker famous to brilliant performance. Employs "Biflex" multiple concentric compliance. Features a remarkable wide frequency range of 40 to 15,000 cps with minimum distortion. Has IN DOX V 1½-Ib. magnet, edge wound aluminum voice coi and deep magnetic gap for precise cone control. 2½ deep. Power handling capacity, 15 watts. Impedance to the compact of the control of th

Use Your Credit Fund—See Page 456

Exciting Speaker Systems by FISHER

KS-1B 3-WAY SPEAKER SYSTEM KIT

- Only 5%" Deep-For Wall, Shelf or Floor
- Factory-Balanced for Smoothest Reproduction
- Easily Assembled in a Few Minutes

You can see and feel the fine Fisher quality of each component in this outstanding speaker system, as you put together the easy-to-assemble kit. Employs a 10" woofer for extended bass; 5" mid-range unit delivering smooth, widely dispersed sound; 3" super tweeter for brilliant highs; 3-way crossover for best distribution of sound. Range, 40-18,500 cps. Supplied with fiberglas padding to prevent resonance and vibration. Easily assembles with just a screwdriver and small hammer. Only 24x28x5³/₄" deep. Capacity, 40 watts. Impedance, and applied to the control of the con ohms. Crossover frequencies, 1400 and 3000 cps. In unfinished, smooth-sanded solid birch ready for painting or staining. With instructions. 30 lbs.

70 DU 153-J. \$5 Monthly NET 59.50

70 DU 154-J. Model KS-1W Kit. In unfinished, smoothsanded solid walnut. \$5 Monthly NET 64.50

70 DU 155-J. Model KS-1A-B. Factory Assembled. Finished in natural birch. \$5 Monthly......NET 84.50







LAB-DESIGNED SERIES XP **SPEAKER** SYSTEMS

Developed to meet exacting requirements and very stringent highfidelity specifications, these superb speaker systems provide a high degree of undistorted audio power within a minimum of enclosure space.

NEW MODEL XP-4A 3-WAY SPEAKER SYSTEM

striking departure in speaker design makes possible a new 3-ay system delivering much smoother response with extremely w distortion. Impedance changes will not effect response. ustomary bass speaker metal supporting frame has been elimlated, allowing use of fiberglas packing directly behind beakers; also has 2" voice coil wound on pure electrolytic coper. Consists of: new "frameless": 12" woofer; two 5" mid-range beakers; 2" tweeter; 3-way crossover network with crossover beints at 1200 and 2500 cps; and balance controls. Range: 30 cps beyond audibility. 14x24 1/2x12". In mahogany or oiled walnut specify choice). Capacity, 60 watts. Impedance, 8 ohms. Disperon, 120° in all directions. Wt., 60 lbs.

DZ 157C-J. Specify finish. \$10 Monthly NET 199.95 DZ 158-J. Unfinished Smooth-Sanded Birch.... NET 189.50

NEW MODEL XP-2A 3-WAY SPEAKER SYSTEM

edesigned to offer outstanding fidelity and compact size at a oderate price. Has 10" woofer, 5" mid-range speaker, 3" tweeter nd two LC crossovers with separation points at 1600 and 5000 ps. Range: 30-15,000 cps. In decorator-finished mahogany or

DU 162-J. Unfinished Smooth-Sanded Birch..., NET 79.50

MODEL WS-1 MID-RANGE SPEAKER SYSTEM

nproves sound quality of music systems by filling mid-range

NEW MODEL XP-1A 3-WAY SPEAKER SYSTEM

An improved version of the XP-1, delivering flawless sound quality over an incredibly wide range of 30 cps to beyond the limits of audibility. Consists of: 12" high-compliance, high-efficiency woofer; one 5" mid-range speaker; 3½" tweeter with wide dispersion; L-C crossover networks separating frequencies at 1800 and 3000 cps; brilliance control for perfect sound adjustment of highs to match room acoustics. Also has newly designed 2" long-travel voice coil and dual-diameter magnet for virtual linear transfer of energy to speaker cone. Enclosure is filled with Acoustiglas. 131/4x24x113/4. In mahogany or oiled walnut (specify choice). Hand-rubbed to a handsome finish. Capacity, 60 watts. Impedance, 8 ohms. Shpg. wt., 45 lbs.

70 DZ 159C-J. Specify finish. \$7 Monthly NET 129.50 70 DU 160-J. Unfinished Smooth-Sanded Birch.... NET 124.50



SCOTT

Compact High-Fidelity Speaker System.

ECONOMICAL MODEL SK-4 SPEAKER SYSTEM KITS

\$7995

\$5 monthly

- As Low As Now—A Scott-Quality Speaker System in Low-Cost Kit Form
 - Just Install Speaker—Enclosure is Pre-Assembled for You
 - 3-Way Design—8" Woofer, Mid-Range Unit, Super-Tweeter, and Precision Crossover Network

A new speaker system kit priced far below what you'd expect to pay, with all the quality for which Scott is widely respected. Not only does the remarkable SK4 employ several of the same components used in much higher priced Scott units, it also comes to you with the cabinet *Pre-assembled*. After you mount the components and fasten the grille cloth in place, it cannot be distinguished from a factory-built unit. Distortion-free sound is provided by a low-resonance 8" woofer, and by the same mid-range and super-tweeter units featured in the S-3, below. Also includes crossover network that has made Scott speakers famous for perfectly balanced sound. Response, 40-17,000 cps. 70 watts. 16 ohms. 22x11x9". In unfinished pine. Shpg. wt., 29 lbs.





MODEL S-2 SPEAKER SYSTEM-SCOTT'S FINEST

- Four Precision Speakers
- Wide-Angle Dispersion
- Covers Entire Audio Range
- Sculptured Wood Panels

- POPULAR MODEL S-3 SPEAKER SYSTEM
 - 3 Speakers and Crossover
- Compact—Shelf-SizedWide-Angle Dispersion
- Fine-Furniture Finish

Book-shelf size 3-way acoustic-compliance system. Features the exclusive wide-angle dispersion design of the S-2, above, to simplify speaker placement in stereo systems. Moderate-cost unit offers precise balance between deep and powerful bass, a clean mid-range and very high treble. Has: 10 woofer; mid-range unit; super-tweeter in matched enclosure; crossove network. Response, 40-17,000 cps. Cap. 70 watts. Imp., 16 ohms. 23 ½x11 ½ 9 ¾". Mahogany or oiled walnut—specify. 37 lbs.

Rek-O-Kut "Sonoteer" Decorator-Styled Hi-Fi Speaker Systems

MODEL CA-70 "CONTEMPORARY" SYSTEM

Net

Only 4" Deep—Place it Anywhere!

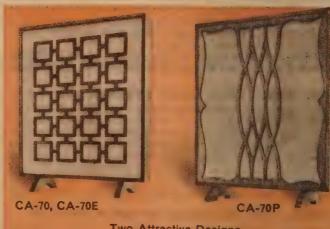
\$5 monthly

 5 Speakers—2 Woofers, 2 Mid-Range Units, and Super-Tweeter for Clean Highs

• Unique Front and Back Radiation

The slender CA-70 houses five high-fidelity speakers within its cabinet for marvelous sound reproduction—yet it's only 4" deep. Two woofers offer rich, full bass all the way down to 40 cps; two mid-range units and a super-tweeter extend the treble response up to 18,000 cps. Unique front and back radiation assures outstanding performance in any room. In beautiful oiled walnut finish. Capacity, 45 watts. Impedance, 18 ohms. 21x25x4". Shpg. wt., 24 lbs.

70 DX 349-J. Model CA-70E "Mandarin". As above, but in gleaming Satin Ebony finish. \$5 Monthly...........NET 89.95



Two Attractive Designs
Three Finishes Match Any Decor

xtended-Range Shelf Speaker Systems





POPULAR MODEL 6 2-WAY SHELF SYSTEM

wide-range book shelf-size system with an extraordinary trannt response for strikingly clean, natural sound. Uses a 12" oustic-suspension woofer and a smaller direct-radiator with a n, shell-like cone featuring a suspension technique that perts excursions up to 1/16"—gives extra-clear mid-range. Crosser network uses air-core coils and oil-filled capacitors; 3-posin switch controls treble output. Overall response is 32-16,000 s. Crossover frequency, 1500 cps. 1.3 cubic ft., sealed enclore is of solid 3/" veneered plywood. 60-watt capacity (requires watt input, minimum). 8 ohms. 23 1/2 x12 1/6 x11 1/6". Shpg. wt., lbs. \$7 Monthly.

DU 166-J. Mahogany Finish......NET 129.00

DU 167-J. Oiled Walnut Finish. \$7 Monthly......NET 134.00

DU 475-J. Unfinished. \$6 Monthly NET 119.00



MODELS 7 and 10 SPEAKER SYSTEMS

MODEL 7. A deluxe-quality floor-type system. 2.6 cubic-ft. enclosure extends bass down to 25 cps, and two cone-type radiators extend treble to 20,000 cps. 75-watt capacity (requires 20 watts, minimum). 8 ohms. 24 1/2 11/6". 52 lbs.

MODEL 10. Economy version of KLH 6. 10" woofer and a conetype tweeter cover 25-18,000 cps. 60-watt capacity (requires 12 watts). 12x231/x8%6". Shpg. wt., 26 lbs.

DELUXE MODEL 4 2-WAY SHELF SYSTEM

KLH'S finest shelf-size speaker system, the Model 4 is ideal for the audiophile who insists on the finest performance, but requires space-saving equipment. The tightly sealed 1.5 cubic-ft. enclosure houses a 12" acoustic-suspension woofer, two conetype direct radiators, and a 2-way L-C crossover network. The crossover has controls for independently adjusting the output levels above 1500 and 6000 cps. There are also provisions for driving the low and high-frequency sections separately. Response, 25-20,000 cps. Power capacity, 75 watts (requires a minimum 30-watt input). Impedance, 16 ohms. 13½x25x12". Shpg.

70 DU 174-J. Unfinished. \$11 Monthly NET 219.45



E-V FINISHING KITS

lectro-Voice furniture finishing kits give ou a professional-like finish on your hi-fi abinetry. Include: stain filler; sealer; hellac; hi-gloss and satin varnishes; nishing paper; brushes; and easy intructions. Wt., 4 lbs.

Stock Mfr's No. Type			Finish	NET EACH
222222	R 073 R 074 R 075 R 076 R 077 R 078	FK10 FK20 FK30 FK40 FK50 FK60	Walnut Cordovan Fruitwood Cherry Golden Oak Ebony	5.88



EICO HFS3K 3-WAY SYSTEM KIT

Shelf-size 3-way speaker system kit with a 12" woofer (has 1¾-lb. magnet), an 8" mid-range unit and a 3½" cone-type tweeter. Rigid ¾" enclosure is pre-assembled—just mount the components on the studs supplied. Built-in 600 cps. L-C network and 4000 cps high-pass filter. Response, 45-14,000 cps. Capacity, 30 watts (requires 10-watt input, minimum). Impedance, 16 ohms. 26¾x13¾x14¾". 45 lbs. \$5 Monthly.

70 DU 697-J. Unfinished ... NET 72.50 70 DU 698-J. Oiled Wainut... NET 87.50



NEW UTAH "SORCERER" SYSTEM

This extra-small speaker system gives you "big sound" plus fine furniture quality at surprisingly low cost. An 8" woofer, 3½" tweeter and a ½" plywood enclosure combine to deliver rich, low-distortion sound. Response, 40-15,000 cps. The attractive cabinet has a hand-rubbed oiled walnut veneer—its styling matches any decor from Early American through Modern. Measures just 12x20x5"—use it on wall, shelf or floor. Capacity, 12 watts. Imp., 8 ohms. 9 lbs.

70 DU 178-J. \$5 Monthly..... NET 29.95

3-Way Speakers, FM Antennas and Accessories



ALLIED/ELECTRO-VOICE 15" SPEAKER

- Deluxe 3-Way Design—Built to Allied's Rigid Specification
- Radax Mid-Range Cone; "Sonophase" Compression-Tweeter With Wide-Angle Treble Dispersion
- Massive Ceramic Magnet
- Compare Price—Compare Features—See How Much You S

Exclusive! Deluxe custom made speaker offers features equa other speakers selling for up to twice its low price. 3-way defor smooth, transient-free response from 30-20,000 cps. 15" h compliance woofer with soft suspension gives spectacular b Mid-range propagator handles the all-important middle-ra frequencies between 2000 and 3500 cps. "Sonophase" th design tweeter evenly spreads crystal-clear highs through a 180° arc. Has mechanical crossover at 2000 cps; electrical cr over at 3500 cps; 2" edgewise wound voice coil; tweeter le control on 36" cable; free-air resonance, 35-45 cps. Heavy dieframe keeps all elements perfectly centered. 11/2-lb. cera

ALLIED/ELECTRO-VOICE 12" SPEAKER

Sensational speaker buy-compares with others selling \$60.00. 3-way unit combines 12" woofer with a Radax-type r range propagator and a high-frequency tweeter. Result is m mum bass without boominess, full-bodied mid-range and dist highs. Response: 35-18,000 cps. Mechanical and electrical croovers at 2000 and 3500 cps. 1%-lb. dual-flux ceramic magnet; addewise wound voice coil for low transient distortion; the level-control on 42" cable. 20-watt capacity. Impedance, 16 oh

HOW TO GET ALLIED'S

Big System Savings

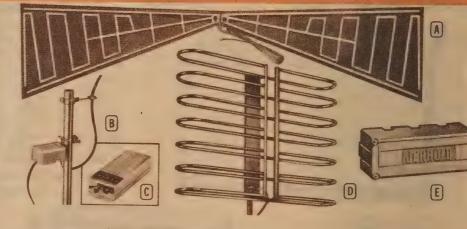
OPEN THE DOOR to thrilling stereo sound in your home right now. How? Just write 'Allied's Department. You may have questions about system savings, equipment or installation. You'll want expert advice before buying. Allied's audio consultants will give you the personal attention you want and need. They'll show you the substantial savings that only Allied, the nation's largest hi-fi center, can give you on music systems.

Possibly, you already have certain system components in mind. Or, you may want our staff to make a recommendation on a system tailored to your needs. You'll be pleased with Allied's low discount prices available on system purchases. Write NOW. Our staff is ready to serve you promptly—consultation is FREE.

EASY TO BUY!

No Money Down

For as little as \$5 a month you can start enjoying the music system of your choice. Use Allied's convenient Credit Fund Plan. No money down, and up to 24 months to pay. Start with a basic record playing system and add other components at any time you wish-with only your signature required. It's the easiest way!



For Improving FM Stereo Reception

NEW RCA "BRITE SITE" TV-FM ANTENNA. For TV, FM, FM stereo. Printed circuit—fits under rug. With 10 feet of 200-ohm twin line. 52x12". 13/4 lbs. 92 CX 418. List, \$3.95...... NET 2.45

B C BLONDER-TONGUE AB-4 ALL TRANSISTOR VHF BOOSTER COUPLER. Power supply (Fig. C) uses 4 cells; provides isolation and 300-ohm match for 4 TV-FM sets. Lead-in supplies DC to amplifier. Amp., 1 ½ x2 ½ x3"; supply, 1 ½ x3x7 ½". Less cells. 1 ½ lbs.
71 C 819. List, \$29.95..........NET 18.62
55 J 005. Battery For Above. 3 oz.....13

KNIGHT 300-OHM TWIN LINE. (Not illus.) Web 80 mil thick. Polyethylene jacket. Wts.: 50-ft. coil, 1 lb.; 100-ft., 2 lbs. D NEW MARK MOBILE STEREO 7 ANTENNA. A 7-element antenna ti doubles the power of sensitive multip signals. You get twice the signal streng of ordinary antennas—assures you of be stereo FM reception. Omnidirectional a minum elements for rust-free life. W hardware. Less mast and twin line. 22x3

5½" deep. Shpg. wt., 6 lbs. 92 CX 439. List, \$24.95.....NET 14.1 E JERROLD TX-FM TV-FM ANTENN MIXER. Converts your present TV attenna into dual-purpose TV, FM, I stereo antenna. Designed to provide ma imum separation and distortion-free s nals necessary for best FM stereo rece tion. 300-ohm input for lead-in; outputs TV set, FM tuner. Screw terminals. 4) 13/x11/4". Shpg. wt., 4 oz.

93 C 118. NET 3.

Stereo Headphones—Personal, Noise-Free Listening



KNIGHT KN-845 HEADSET

m and lightweight-you hardly know there! Unbreakable contoured head-nd of spring stee!. Comfortably re-ssed ear cups. Both headband and ear shions padded with sponge rubber, vered with smooth leatherette skin. sy push-in/pull-out headband adjusts custom fit on any head. Frequency Reonse: 25-16,000 cps. 8-foot cord with one plug; jack on "L" bracket. 4-16 ms. Wt., 2 lbs.

DX 825-J. \$5 Monthly . ONLY 19.95 1-846 CHAIRSIDE CONTROL. Sepate fingertip volume controls for 1 or 2 N-845 headsets. Switch for turning regar speakers on or off. 1 1/2 lbs.

D 826-J. ONLY 7.95

KOSS STEREO HEADSETS AND ACCESSORIES

PRO-4 PROFESSIONAL HEADSET. Fluid filled ear pads. Response: 30-20,000 cps. Shatterproof and shockproof. Imp., 4 ohms. 8-foot cord. Wt., 2 lbs.

59 D 051. \$5 Monthly.....NET 44.10 59 D 054. As above, 600 ohms. NET 44.10

WM-5 WALL-MOUNT HEADSET HOLDER, 2 Volume controls. 1/2 lb.

T-1 HOOKUP BOX. Matching transformers, 600-10,000 ohms. 23/x2x4". 8 oz. 7.79

T-5 CONTROL. Speaker on-off switch, volume controls. 23/x2x4". 8 oz. 59 D 188. NET 8.77

SP-3 HEADSET. Thrilling stereo without disturbance. 31/2" dynamic reproducers in each earphone give smooth response from 10-15,000 cps. With 8' cord and T-2 stereo-phone jack for connecting to amplifier. Impedance, 4 ohms. 2 lbs.

59 D 178. \$5 Monthly.....NET 24.45

SP-5NS DUAL-MODE HEADSET, Stereo plug or 2 mono plugs; switch. Response: 10-15,000 cps. 5.3 ohms. 21/2 lbs. 59 D 049. \$5 Monthly....... NET 24.45

SP-5SM HEADSET. Stereo-mono switch; 1 plug. Frequency Response: 10-15,000 cps. Imp., 5.3 ohms. Wt., 2½ lbs. 59 D 050. \$5 Monthly.....NET 24.45



JENSEN HS-1 HEADSET

ightweight headphones for stereo or nono listening. Response: 20-15,000 cps. loise-excluding foam ear cushions renove for cleaning. High-compliance, urvilinear drivers have moisture-resistant liaphragm. Acoustic rear mesh for uniorm bass. With 8-ft. cord, standard headhone plug plus jack and 4 leads for conlecting to amplifier. Imp., 8 ohms per hannel. 13/4 lbs.

D 328. \$5 Monthly. NET 24.95

TELEX HDP-53A HEADSET

'Dyna-Twin" stereo headphones provide exceptional depth and direction for excitng realism. Frequency Response: 30-5,000 cps. Lightweight set weighs only 2 oz. Foam rubber ear muffs keep music n-noise out. Dynamic driver element has 'Mylar" diaphragm and self-supporting oice coil. 8 ohms. 14 oz.

9 D 327. \$5 Monthly......NET 24.40

JENSEN "SPACE PERSPECTIVE"

CFN-1. Experience the sensation of true private stereo-from both front and sides. No unnatural partitioning of sound. Each ear hears part of opposite amplifier's sound. Works with any 8-ohm headset. 23/16X4X53/16". Wt., 11/2 lbs.

59 D 055. \$5 Monthly NET 19.50

CC-1. As above, with controls for: on-off; left or right channel only, or stereo with left-right reversal; mono, or stereo with "Space-Perspective" or regular; balance; volume. Jacks for 2 phones. Walnut finish. 41/8x11 3/4x3", 3 1/2 lbs.
59 D 065. \$5 Monthly......NET 39.75

NEW SHARPE HEADSET

Comfortable "Live Tone" circumaural ear cushions. Liquid-filled-99% of external noise is eliminated. Frequency Response: 20-20,000 cps. Shockproof and shatter-proof. Impedance, 10 ohms. 11/2 lbs. 59 D 299. \$5 Monthly.....NET 43.50

NEW SUPEREX HEADSET

ST-M. Woofer, tweeter in each phone. Response: 20-20,000 cps. Crossover, mono adapter, cables. Low imp. 21bs 59 DX 063. \$5 Monthly NET 29.35

ST-MH. Above, but high impedance.

59 DX 058. \$5 Monthly NET 34.25 ST-S. Above but, Frequency Response: 30-15,000 cps. Adapts for monaural listening.

Low impedance. Wt., 2 lbs.
59 DX 059. \$5 Monthly....NET 24.45

ST-SU. As above, but with matching transformers and switch for low or high impedance. Shpg. wt., 2 lbs.

59 DX 060. \$5 Monthly NET 29.35 SC-1 CONTROL BOX. Controls volume,

balance, on-off. 2 phone screw terminals. ST-M or ST-SU jumper wires. 1/2 lb.

SC-2. Same as SC-1 but has 2 stereo jacks. For low impedance phones. 1/2 lb 59 D 062.....NET 6.81

ROCKFORD

For the Finest Acoustic



For the discriminating taste—delightful Italian Provincial styling. Includes Model 600 cabinet and two Model 601 enclosures. Cabinet has top-loading phono compartment, 14%" high, 17%" wide and 6%" deep. Upper left has space for tuner and amplifier—17%" wide and 14%" high. Accommodates more than 100 records. Cabinet size, 27%x38x17". Bass-reflex enclosures take speakers up to 12". Each enclosure, 27%x17x17". Specify fruitwood or oiled walnut. Ensemble wt., 148 lbs.

House your system components in ele Italian Provincial, Contemporary, Da Modern, or Early American cabine. Cabinets and enclosures are built of suine veneer overlay. Acoustically design to accommodate monophonic or ste systems. Each is hand-rubbed to a beaful finish. NOTE: Allied guarantees can matched finishes only when an entensemble is ordered at the same tin

CONTEMPORARY ENSEMBLE

Up-to-date styling at an economical princludes Model 120-B equipment cab plus two Model 101-B speaker enclosu Cabinet has top compartment 13%" hand 18%" wide; blank panels for cus mounting; easy-sliding drop front. Conet size, 31x20x18". Speaker enclosu accommodate 12" or 15" speakers. Ensure size, 31x20x18". Specify mahoge blonde or oiled walnut finish. Shpg. of entire ensemble, 160 lbs.

70 DZ 576C-3J. Save \$10.00 NET 189

70 DZ 578C-J. Speaker Enclosure O Shpg. wt., 52 lbs.....NET EACH 6

DELUXE CONTEMPORARY

Functional styling with an accent on a ciousness. Includes Model 500-B equipment cabinet and two Model 501-B spea enclosures. Cabinet has lift-top upper compartment, 16 % x19 % x6"; upper risection, 13 %" high, 18 %" wide. Pull-drawer for changer, turntable or recornolds 150 records. Sliding doors. Canet size, 31 x40 x19 ½". Each enclose 31 x20 x19 ½"; take 12" or 15" speai Specify mahogany, blonde or oiled vinut. Wt., 226 lbs. \$13 Monthly.

70 DZ 579C-3J. Save \$15.00 NET 264.

70 DZ 581 C-J. Speaker Enclosure O Shpg. wt., 50 lbs. . . . NET EACH 69





DANISH MODERN ENSEMBLE

For those who enjoy modern contemporary Scandinavian style in their furnishings. Consists of the Model 700 cabinet and two Model 701 enclosures. Cabinet features top-loading phono compartment, 14%" high, 17¼" wide and 6%" deep. Upper left for tuner and amplifier—175%" wide and 14½" high. Has blank panel for custom mounting. Lower right has room for 100 records. Lower left accommodates additional records. Hinged doors with

convenient magnetic latches. Overall size of cabinet, 281/x381/x173/". Enclosures take speakers up to 12". Each enclosure, 281/x17x17". Finished in oiled walnut. Wt. 160 lbs. \$12 Monthly

70 DZ 010-3J. Save \$14.00. NET 239.95

70 DZ 000-J. Equipment Cabinet Only.

70 DZ 001-J. Speaker Enclosure Only. Shpg. wt., 40 lbs.... NET EACH 64.50

EARLY AMERICAN ENSEMBLE

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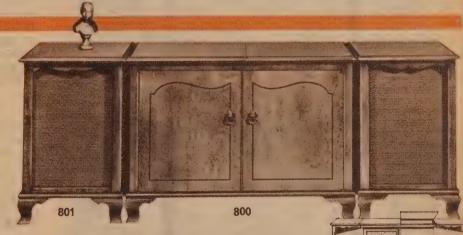
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esigned for comfortable living, ensemre includes Model 800 cabinet and two odel 801 enclosures. Phono compartent, 14%" high, 17½" wide and 6%" deep top-loaded. Amplifier and tuner space 175% wide and 14½" high. Holds 100 cords; has panel for custom mounting. inged doors have magnetic latches. verall cabinet size, 27½x38¾x17½". ach enclosure, 27¼x17x17"—takes up to 2" speaker. Maple finish. 160 lbs.

12 Monthly DZ 021-3J. Save \$15.00. NET 244.95 DZ 011-J. Equipment Cabinet Only.

hpg. wt., 80 lbs......NET 127.95

DZ 019-J. Speaker Enclosure Only. hpg. wt., 40 lbs..... NET EACH 66.00



 Authentic Styling Accentuates Air of Gracious Living Superb Acoustical Design For True High Fidelity Sound

MODEL 108 SPEAKER ENCLOSURE

martly styled shelf-type enclosure for horizontal or ertical use. Accommodates any 8" speaker, plus veeter which can easily be added at any time. Beauti-Illy finished on all four sides in rich hand-rubbed eneers. Cane grille cloth. 12x24x12". Choice of mahog-

ny or oiled walnut veneer. 25 lbs.

DDU 462C-J. Specify Finish. \$5 Monthly NET 27.00

MODEL 112 SPEAKER ENCLOSURE

ye-appealing, acoustically lined enclosure for any 12" peaker and tweeter. Semi back-loaded resonator comined with smart construction in a compact speaker enlosure. Hand-rubbed, genuine veneers on four sides; plastic cane grille cloth. 24x16x13 ½" (plus 2" base). n mahogany or oiled walnut. Wt., 35 lbs. To DZ 073C-J. Specify Finish. \$5 Monthly.NET 42.95



GAMBER-JOHNSON



OVATION CABINETRY

Create new standards of elegant styling and functional design. Each ensemble features ¾" construction; hand-rubbed veneers; adjustable shelving; lift-top access to phono compartment; bass-reflex enclosures with adjustable ports. Interior dimensions of all cabinets are identical. Amplifier-tuner section at upper left, 14" high, 17½" wide and 15¼" deep; phono section, 10x17½x14½" (equipped with motor board with adjustable height to take turntable, changer or tape deck); lower right storage section, 10x17½x16"—holds 100 records; lower left, 10x17½x16".

Ovation Component Cabinetry



MODERN CONTEMPORARY STYLING

COMPLETE 3-PIECE ENSEMBLE. Styled and designed for today's living and listening. Consists of equipment cabinet and two matching speaker enclosures, in eyeappealing oiled walnut or mahogany. Outer dimensions of cabinet, 30x37x18"; outer dimensions of each speaker enclosure, 30x19 1/4x18". Enclosures are pre-cut for 15" speakers, with 12" speaker adapter boards; have tunable ports to match speakers per-

fectly to enclosures. Finishes of unit guaranteed to match only when purchase as ensemble. Specify finish. Wt., 184 lbs 70 DZ 555C-3J. Save \$12.00. NET 227.8

GJ-630 EQUIPMENT CABINET. 98 lbs. 70 DZ 556C-J. Specify Finish. NET 119.9 GJ-680 SPEAKER ENCLOSURE ONLY Shpg. wt., 43 lbs.

70 DZ 557C-J. Specify Finish...EA. 59.9







AUTHENTIC EARLY AMERICAN DESIGN

GJ-620 EQUIPMENT CABINET ONLY. Wt., 102 lbs 70 DZ 562J. NET 129.9 GJ-670 SPEAKER ENCLOSURE ONLY. Wt., 46 lbs

70 DZ 563J. EACH 69.9

GENUINE FRENCH PROVINCIAL

AUTHENTIC ITALIAN PROVINCIAL

GJ-660 SPEAKER ENCLOSURE ONLY. Wt., 43 lbs 70 DZ 560-J. EACH 69.9



BARZILAY

California-inspired Decorator Styling and the functional use of choice American Black Walnut woods highlight this elegant furniture grouping. Here is truly deluxe cabinetry designed to accommodate and enhance the deluxe high-fidelity music system.

MODEL H-200 STEREO CONSOLE CABINET AND ENCLOSURES

Acoustically superb, offering every convenience, and a masterpiece of stylish simplicity in hand-rubbed oiled walnut finish—the H-200 is an outstanding one-piece cabinet for your stereo music system. Equipment cabinet has spacious lift-top compartment (36x15"), one half holding vertical panel-mounted amplifier and tuner; other half housing turntable. Lift-top cover rises at a touch of your hand to provide access to controls and turntable. Also has convenient pull-out

"browser" drawer (18x15x13") with rack for storing your records. Fully vented. The handsome speaker enclosures at either end are gracefully swept back to broaden stereo distribution. Each enclosure accepts a 12" speaker and utilizes phase-inversion principle for fine audio response. Overall size: 27" high, 18" deep, 78" wide. Allows convenient placement in your home, and proper stereo spread. Shpg. wt., 125 lbs.

70 DZ 129-J. \$12 Monthly... NET 224.95

A 4-piece grouping styled in refreshing contours. Provides acoustic excellence as well as roomy housing. Consists of 9561 Equipment Cabinet, two 5062 Speaker Enclosures and a sculptured, one-piece solid-walnut platform base, 8" high. Overall size, 32x96x18". Equipment cabinet features unique paneled tambour doors, two shelves and blank panel for custom installation. Also includes 20" wide by 15" deep top-loading turntable compartment with easy-access touch-top cover; and 20" by 13" record storage space. Overall size of cabinet, 24x48x18". Enclosures accept 12" or 15" speakers. Size of each, 24x24x18". Finished in hand-rubbed oiled walnut. 247 lbs. Save \$29.90.

950E STEREO ENSEMBLE

70 DZ 132-4J. \$19 Monthly. NET 429.95

MODEL 951C STEREO CONSOLE. Same styling and design as above, but more compact. One-piece unit; 8" base; accepts 12" speakers. Touch-top changer compartment, 18x15"; record storage space, 18x15x13". 32x78x18". 150 lbs.

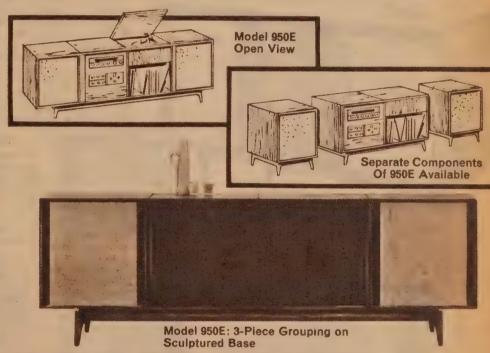
70 DZ 130-J. \$16 Monthly . . NET 324.50

9561B EQUIPMENT CABINET ONLY. With 8" base, 32x48x18", 115 lbs.

70 DZ 133-J. \$13 Monthly.....NET 254.95

5062 SPEAKER ENCLOSURE ONLY. With 8" base. 26 1/2 x 24 x 18", 66 lbs.

70 DZ 134-J. \$5 Monthly...... NET 99.95



"BRAX" SUPPORTS FOR SHELF-MOUNTING HI-FI EQUIPMENT



Sturdy pairs of decorative steel wallmounting strips and shelf supports that can hold a music system or other equipment. Easily installed. For extra-long shelving, use 2 pairs of strips. Less shelves. *Extra heavy-duty with nylon locking cam.

WALL MOUNTING STRIPS

Length	Wt. lbs.	Satin-Silver Stock No.	Black Stock No.	NET PER PR.	Satin-Gold Stock No.	NET PER PR.
24"	1	82 RX 050	82 RX 053	.98	82 RX 056	1.33
36"	2	82 RX 051	82 RX 054	1.36	82 RX 057	1.75
48"	2	82 RX 052	82 RX 055	1.74	82 RX 058	2.15

SHELF SUPPORT ARMS

Length	Wt.	Satin-Silver Stock No.	Black Stock No.	NET PER PR.	Satin-Gold Stock No.	NET PER PR.
8"	1	82 RX 059	82 RX 064	.84	82 RX 069	1.09
12"	1	82 RX 060	82 RX 065	1.16	82 RX 070	1.45
16"	1	82 RX 061	82 RX 066	1.59	82 RX 071	2.29
*16"	2	82 RX 063	82 RX 067	2.39	82 RX 072	3.39

FAIRCHILD

Improve the Performance of Your Stereo System



mm 0 3300 MW Recaptures Full "Impact" of Actual Performance



Action Indicators Show Dynamic Expansion



MINDER" You Can Asleep to Music -Shuts Off **Entire**

System

NEW FAIRCHILD MODEL 510 "COMPANDER"

Adds an amazing degree of realism to music reproduced by your high-fidelity music system. Assures full-range dynamic reproduction-prevents overloading and distortion when recording. Automatically increases the dynamic range (loudness) of program material compressed during record cutting-without altering the frequency response of any program material. Achieves listening level gain of 6 db or more for greatly enhanced stereo separation. With a flick of a switch, reverse the

action and make it compress (reduce) dynamics for tape recording and background music-prevents overload and sudden playback peaks. Threshold controls permit you to adjust the rate of expansion or compression. Action indicator lights let you see the effect taking place. Easy to install-simply plug stereo phono into the 510, plug 510 into your amplifier. Size, 25/16x83/16x5". Shpg. wt., 5 1/2 lbs.

72 SU 043-J. \$5 Monthly.....NET 75.00

AUTOMATIC "MUSIC-MINDER"

Now any hi-fi system can be fully automatic. When your changer shuts off after last record is played, entire system is turned off. Changer and amplifier simply plug into "Music-Minder." Manual position for non-automatic operation. For Garrard, Collaro, Thorens and other European-made record changers. 61/2x2x 11/2". Wt., 2 lbs.

82 R 079... NET **5.5**0 82 R 080. Above, for Webcor, other American-made changers.....NET 5.50

ALL-IN-ONE EQUIPMENT CABINET

Beautifully styled, low-cost cabinet provides space to accommodate complete stereo system. Crafted in fine woods, has heavy hardwood top, hand-rubbed walnut veneer. Features two sliding doors for easy access to components. Bass-reflex enclosures take 8" or 12" speakers, are acoustically padded and reinforced to eliminate resonance. Convenient, slideout changer drawer has blank mounting board (3" below, 61/" above). Dimensions (HWD): each enclosure, $18\frac{1}{2}$ x12 $\frac{1}{6}$ x14"; upper section, $6\frac{1}{6}$ x17 $\frac{3}{16}$ x5 $\frac{1}{6}$ "; lower, $9\frac{3}{4}$ x17 $\frac{3}{16}$ x15 $\frac{1}{6}$ "; overall, 28x 47 $\frac{5}{6}$ x18 $\frac{1}{6}$ ". Shpg. wt., 85 lbs. 70 DZ 619-J. \$5 Monthly......NET 88.95

MATCHING RECORD CABINET

A marvelous value, easily stores over 150 LP records. Perfectly matches "all-in-one" equipment cabinet at left; can be used with other contemporary style units. Solid, 3/4" panels; sliding doors, removable dividers; accessories shelf. Oiled walnut. Size, with 8" legs; 28x26x16". Shpg. wt., 45 lbs.

70 DZ 179-J.....ONLY **29.95**









or Walnut Finish



NEW! HIGH POINT CABINET

MODEL 8105. Beautifully designed to give your records an attractive home. Featuring modern "low-boy" design, it's a full 40" in length. Stores over records in its huge compartment. Sturdy top holds stereo components, TV, etc. Constructed of durable furniture veneers. Brass hardware on sliding doors and legs. Storage compartment, 23 1/2 x 17 1/2 x 13 1/2 overall, 26x40x18". Mahog. or walnut finish.Shpg. wt., 31 lbs.
70 DZ 180C-J. Specify finish..NET 19.88

HIGH POINT 811 CABINET

Two-tier record storage cabinet holds up to 600 LP records. Blends well with traditional or contemporary decor. Constructed of sturdy, durable 7-ply veneers with polished brass door pulls and trim. Among its deluxe features are swinging doors equipped with fine-quality magnetic lock catches and heavy brass hinges. Size, 33" high, 27" wide, 15" deep. Available in attractive, hand-rubbed mahogany or walnut finish. 4 lbs

70 DZ 181C-J. Specify finish.NET 35.95

ARISTO-BILT CABINETS

MODEL 211. Attractive, low-cost showcase for hi-fi components and records. Holds 150 albums. Sliding louvered doors cover lower portion of cabinet. Upper compartment, 15x24x8"; lower, 15½x24x 13½"; overall, 30x25½x15½". Legs, 6". Walnut finish. Shop. wt., 28 lbs. 27 05

70 DU 182-J. \$5 Monthly. . . . NET 27.95 70 DU 183-J. Above, unfinished 19.95 70 DU 186-J. Model 212. Walnut. Holds 200 albums. 34" wide. 33 lbs. 70 DU 187-J. Above, unfinished 22.95

"Solar" Grille Cloths

A 82 RX 093. "Pandanus." Imported straw. 27" wide (min. order 1 yd.). Per yd., 15 oz...... NET PER YARD 1.60 82 RX 094. To 10 1/2 yds., PER YD....1.60

82 RX 095. "Cane." Natural on brown fabric. 36" wide (min. order, 1 yd.). Per yd., 15 oz.......NET PER YD. 2.40 82 RX 096. Over 1 yd., PER YARD ... 2.40

C 82 RX 097. "Cane & Lurex." Brown and tan, gold metallic thread. 36" wide (min. order, 1 yd.). Shpg. wt., per yd., 15 oz....... NET PER YARD 2.95 82 RX 098. Over 1 yd., PER YARD ... 2.95

D 82 RX 099. "Cane." 2-tone beige on brown. 36" width (min. order, 1 yd.). Wt., per yd., 15 oz. NET PER YARD 2.50 82 RX 100. Over 1 yd., PER YARD ... 2.50

E 82 RX 101. "Lurex." Brown and tan shades, with gold and bronze "Lurex' metallic thread, 36" wide (min. order, 1 yd). Wt. per yd., 15 oz...... PER YARD 4.00 82 RX 102. Over 1 yd., PER YARD . . . 4.00

LOW-COST RECORD CABINETS



UNIVERSAL WOODCRAFTERS CC-22. Offers richly sculptured doors and center panel. Square tapered legs, ivory-tipped brass ferrules. Top shelf, 26x15x5 1/8", holds amp, etc. Record shelf, 24x15x14", holds 250 LPs. 28 1/2x18x16" overall. In mahogany or walnut, specify choice of finish. 48 lbs.

70 DZ 188C-J. \$5 Monthly... NET 34.95

UNIVERSAL HIGH-POINT 95. Holds over 250 records, sturdy enough to support a TV set, too. Skillfully crafted. Gleaming brass trim, brass hardware and ferrules. 221/2x24x18". Shipped knocked-down, assembles in a few minutes. In mahogany or walnut finish, specify choice when

"Acoustone" Speaker Grille Cloths

TESTED AND APPROVED BY U.S. TESTING COMPANY



A wide selection of popular Acousticone speaker grille cloth in highly attractive, color-fast patterns. Match virtually all types of decorative motifs. Made of highly durable Saran plastic in an open weave to permit unrestricted passage of all sound frequencies. Special construction plus professional weaving techniques-never sag or shrink. Shpg. wt., per yard, 15 oz.

BUDGET-PRICED GRILLE CLOTH

		1	/ Stock	No.	NET
Description () () ()	Pattern No.	Fig.	In Lengths Over 1 Yd.	36x36"	PER YD.
Mahogany with Ivory Threads Natural Cane	211 41-X35-45	F	82 RX 103	82 RX 104 82 RX 107	2.39
Straw Weave (27" weave only) Blonde and Yellow	615	H	82 RX 108	82 RX 109 82 RX 111	2.39
Walnut with Bronze Threads Gold and Bronze	811 213	K	82 RX 115	82 RX 16 82 RX 19	2.39

MODERATELY-PRICED GRILLE CLOTH

Blonde with "Lurex" and Brown 515M M 82 RX 120 82 RX 121 3.29 82 RX 123 3.29 82 RX 124 82 RX 124 82 RX 125 82 RX 125 82 RX 126 82 RX 127 3.29 82 RX 124 82 RX 127 3.29 82 RX 128 82 RX 128 82 RX 130 3.29 831 T 82 RX 133 82 RX 134 3.29 831 T 82 RX 133 82 RX 134 3.29 831 T 82 RX 133 82 RX 134 3.29 831							
Natural Cane Brown on Beige Cane Mahogany, Beige with Metallic Gold Blonde, Beige with Metallic Gold Natural Cane 1809 2475 R 82 RX 24 82 RX 27 3.29 R 82 RX 28 82 RX 30 3.29 R 82 RX 31 82 RX 32 3.29 R 831 T 82 RX 33 82 RX 34 3.29	Blonde with "Lurex" and Brown	515M	M	82 RX	120 82	RX 121	3.29
Brown on Beige Cane Mahogany, Beige with Metallic Gold Blonde, Beige with Metallic Gold Managany, Beige with Metallic Gold	Beige with Metallic Gold	711M					
Mahogany, Beige with Metallic Gold 32-57R-2F S 82 RX 131 82 RX 132 3.29 Blonde, Beige with Metallic Gold 32-57R-2F S 82 RX 131 82 RX 132 3.29	Natural Cane	1809	P	82 RX	124 82	RX 127	3,29
Blonde, Beige with Metallic Gold 831 T 82 RX 133 82 RX 134 3.29							
	Mahogany, Beige with Metallic Gold	32-57R-2F	S	82 RX	131 82	RX 132	3.29
	Blonde, Beige with Metallic Gold	831	T	82 RX	133 82	RX 134	3.29
Ebony and Natural Cane 1824 W 82 RX 137 82 RX 138 3.29	Ebony and Natural Cane	1824	W	82 RX	137 82	RX 138	3.29

DELUXE GRILLE CLOTH

Beige and Brown with Metallic Gold 19 11	2025				139 82			
Walnut and Tan Cane with Metallic Thread	1803	Y	82	RX	146 82	RX	147	3.95
Black with Gold Cobweb	453				148 82			
Dalk Manogany with Michigan	000							
Beige, White and Tan with Metallic Thread	7104	CC	82	RX	154 82	RX	155	3.95
Black with Gold Cobweb Beige and White with Metallic Dark Mahogany with Metallic Beige, White and Tan with Metallic Thread	814BM 300	AA BB	82 82	RX RX	148 82 150 82 152 82 154 82	RX	151	3.95



G-C DECORATIVE METAL GRILLE

H

DD Brushed-brass finish, Diamond pat-

tern. 2 ½ x ½". 4 lbs.

82 RX 090. 12x18". NET 1.76

82 RX 091. 18x24". NET 3.23

82 RX 092. 24x36". NET 6.14

SPEAKER REDUCER RINGS

For mtg. small speakers in larger enclosures. %" plywood. With hardware. MODEL R/R 12/8. For mounting 8" speaker in 12" speaker cabinet. 1 lb. **82 RX 298.** List, \$2.00. NET **89c**MODEL R/R 15/12. For mounting 12"

speaker in 15" speaker cabinet. 1½ lbs. 82 RX 299. List, \$2.75........NET 1.19

BARZILAY OIL FURNITURE FINISH

Liquid preparation gives soft luster to oiled walnut furniture finishes. A

TAPERED BRASS LEG KITS

GG Include four dual-purpose mounting brackets that let you affix legs to cabinet in either straight or angle position. Kit includes 4 legs and screws. Handsomely finished in brass.

82 R	081.4"	Kit.	2	lbs		 	NET 2.49	
82 R	082. 6"	Kit.	3	lbs		 	.NET 2.79	
82 R	083. 12	", Kit.	. 4	lbs.	. «	 	.NET 3.79	
82 R	084. 14	" Kit.	. 5	lbs.		 	.NET 4.19	

UNFINISHED TAPERED WOOD LEG KITS

GG Same as kits, above, but legs of sanded, unfinished hardwood.

82	R	085.	4"	Kit.	1	1/2	lbs.	 	 100	NET	1.79
82	R	086.	6"	Kit.	1	3/4	lbs.	 * 19	 	NET	2.09
82	R	087.	12	' Kit		21/	¿ lbs	 		NET	2.49
82	R	088.	14	' Kii		23/	lbs	 		NET	2.79

ROBINS

Accessories That Preserve Fidelity





Add Hours of Playing Time to Your Records With These Valuable Accessories

A ESK-3 RECORD CARE KIT. Ends all record care problems. Has everything you need for preserving the life and quality of your records. Contains: stylus pressure gauge; turntable level; stylus microscope; cleaning cloth; needle brush; record brush; arm lift. Wt., 1 lb.

82 R 000 NET 3.38

B E15-S PLASTIC RECORD COVERS. Protective sleeves for your 12" records. Made of durable polyethylene plastic with thermoset seams to resist tearing, they keep records free from dust and moisture. Packed 15 sleeves to a package—in plastic envelopes. Wt., 7 oz

82 R 001 NET PER PKG. 58c

C NB-1 "KLEENEEDLE" BRUSH. Automatic protection for your needle and records. Whenever arm is cycled, stylus is wiped over brush. Removes accumulations of dust, lint, etc. from needle tip-reduces distortion. Base has adhesive pad for very easy mounting. Shpg. wt., 4 oz. 82 R 002 NET 95c

TL-1S TURNTABLE LEVEL. Don't gouge your records because of a tilting turntable-this easy-to-use leveler employs an air bubble indicator to ensure accurate leveling in any circumstance. With it you'll be sure of correct tracking of lead-in and changer trip grooves; even wear of records and needle. In lifetime

gold anodized aluminum case. 4 oz 82 R 003 NET 59c

SD-4S "STROB-DISC." (Not illustrated.) Make sure that your turntable is rotating accurately. Just place the "Strob-Disc" on the turntable under neon light-you'll know immediately whether the turntable is correctly rotating at 163/3, 33 1/3, 45 or 78rpm. Shpg. wt., 2 oz.

82 R 004 NET 20c

E PC-12S POLYESTER PHONO CUSH-ION. Low-cost polyester foam mat that protects records played on changers. With cushion, records drop gently and safely. 12" diameter; 3/6" thick, Wt., 3 oz.

82 R 005......NET 69c

82 R 006. As above, but 10" in diameter.

RB-75S CLIP-ON RECORD BRUSH. Soft camel hair brush that mounts on pickup arm and brushes record ahead of stylus to remove dust from grooves. Selected, lightweight fibers will not scratch record. Just clip into place-won't interfere with tone arm tracking or stylus pressure. Shpg. wt., 3 oz.

82 R 007..... NET 29c

G SE-900 ANTI-STATIC "ATOMIC JEWEL." A tiny jewel, on a clip, acts as an extremely effective static neutralizer. Makes records dust-resistant by neutralizing static electric charges that attract dust. Weighs less than 1/50 of an ounce. Clips to tone arm. Reduces record noise; lengthens record life. 3 oz.

82 R 008 NET 2.70

H IP-16S ACOUSTIC ISOLATION PAD. Designed by experts to minimize acoustic feedback, reduce noise and protect furniture finishes from heat. Fits beneath record changer bases, recorders, amplifiers, preamps, etc.-absorbs vibrations. Can be used beneath TV chassis. Of highly resilient urethane foam. Size, 13 1/2x16 1/2". Shpg. wt., 12 oz.

82 R 009 NET 1.00 RA-45M 45-RPM RECORD INSERTS. (Not Illus.) Durable metal inserts that

easily snap into record center hole and hold position indefinitely. 5 per package. Shpg. wt. per pkg., 4 oz.

82 R 010 NET PER PKG. 21c

J MX-1 STYLUS INSPECTION MICRO-SCOPE. For easily inspecting stylus tip. Quickly reveals imperfections and signs of wear. Features: 4 precisionground optical glass lenses for clear magnification; knurled focusing adjustment; convenient slot at end of microscope for holding needle steady; and pocket clip. Size, 3¾" long; ½" diameter. Wt., 5 oz.

"SYL-A-SCOPE" NEEDLE TIP CHECKER. A simplified version of an optical comparator used for examining tiny parts. Accurate and easy to use, it provides a magnified, illuminated image showing the detailed contour of any needle tip. All you have to do is place the pickup arm on the rest bar with the stylus set into an opening. Switch on the "Syl-A-Scope" and see a clear, magnified picture of the tip projected on an illuminated screen-ready for examination.

SG-33 "SYL-A-SCOPE" JR. Low cost, portable battery-operated model. Employs two replaceable penlight batteries available anywhere. In plastic case, 51/2x31/2x 11/4". With switch and bulb. Less batteries, below. Shpg. wt., 12 oz.

82 R 012.....NET 4.49

BATTERIES FOR ABOVE. Uses 2. 3 oz. 55 J 020 NET EACH 10c

SG-66 PROFESSIONAL "SYL-A-SCOPE." Deluxe AC model with extra-sharp optical system, higher power enlargement, and larger screen. A precision optical tool for use by recording studios and broadcast stations, serious record collectors, hi-fi technicians, etc. Metal housing, 7x5½x3½". Complete with switch, line cord and bulb. For 110-120 volts, 60 cycle AC. Wt., 1½ lbs.

Accessories for Record Changers and Turntables

ESK-5 STROBE LIGHT KIT. Shows you if your turntable is moving at the proper speed. Consists of stroboscopic card and neon lamp. Just put strobe disc on turntable, set to desired speed and hold lamp over appropriate dots. For 110-120 v., 60 cycle AC. Wt., 6 oz.

82 R 014 NET 98c

M ESK-1S BALANCED SOUND KIT. Contains a quick-reading stylus pressure gauge and very accurate turntable level. With pressure gauge, you can quickly determine the correct stylus pressure. Turntable level indicates whether there is the slightest tilt. Shpg. wt., 4 oz. 82 R 015..... NET 98c

N ESK-45 TURNTABLE LEVELING KIT. A low-cost kit that permanently levels turntable to exact requirements. Has 4 adjustable rubber feet with mounts, and an air bubble indicator that mounts to base. Shpg. wt., 1 lb. 82 R 016 NET 1.80

P CC-US RECORD CHANGER COVER. For use with Garrard, Glaser-Steers, Collaro and most other popular record changers. Plastic—17x15x83/4". 6 oz. 82 R 017......NET 98c

P CC-TUS TURNTABLE COVER. Fits Fairchild, Rek-O-Kut, Garrard and many others. 22x161/2x9". Wt., 6 oz. 82 R 018 NET 1.25



172 ALLIED Satisfaction Always Guaranteed

Handy Accessories for Every Music System



A TURNTABLE LEVEL. Precisely levels turntables and record changers with aid of water bubble indicator. 6 oz 82 R 019 NET 1.50

'PIC-A-DISC" RECORD HOLDER. Minimizes record warping by using hinged-wire record retainers that also make selection quick and easy. Holds fifty . 10" or 12" records in jackets. Brass finished steel. Shpg. wt., 5 lbs.

82 RX 020 NET 4.98

C ESL "DUST BUG." Lightweight plastic arm with fine nylon brush, pad-type dust collector and pad cleaning fluid. Arm suction-cup mounts to base. Brush loosens dust and dirt in record grooves-pad picks it up. Fluid cleans pad. 8 oz

82 R 021. For Changers NET 4.75 82 R 022. For Turntables NET 5.75

D LEKTROSTAT RECORD CLEANING KIT. Contains plastic bottle (11/4 fluid oz.) of anti-static detergent fluid, and tufted wiping pad. Apply fluid to record; then wipe with pad. Shpg. wt., 5 oz. 82 R 023.....NET 1.96

E DELUXE 12" RECORD ALBUM, Unusually sturdy, with 12 tough Kraft paper envelopes in binder. Has inside cover index. Fabrikoid cover. 2½ lbs. 82 RX 024 NET EACH 1.75

3 or More......NET EACH 1.49 E DELUXE 7" RECORD ALBUM. As above, for 7" records; less index. 12 oz. 82 R 025 NET EACH 1.15

3 or More......NET EACH 99c

F DISC STORAGE AND CARRYING CASES. Metal or fiberboard. 12" cases hold thirty 12" records; have numbered index separators. 7" cases hold seventyfive 7" records; have numbered index and separators. Metal cases styled in red and white. Fiberboard cases are black with gold thread pattern and white trim. Sizes: 12" cases—133/4x131/2x43/4"; 7" cases—73/4x

12" FIBERBOARD CASE. 3½ lbs. 82 RX 027......NET EACH 3.95

Stylus Pressure Gauges and Arm Positioner

WALCO PRESSURE GAUGE. Sets pressure from 2 to 10 grams without using springs or cams. Just set correct weight for your cartridge (as recommended by the cartridge manufacturer) on the gauge. Adjust counterweight on tone arm until it's in balance. Wt., 6 oz.

82 R 032 NET 1.00

K GARRARD PRESSURE GAUGE. Accurately measures weight exerted by the needle on a record. Markings in one gram intervals to 10 grams. All moving parts are of lightweight alloy, sealed for

L''MICRO-GRAM'' PRESSURE GAUGE. Uses system of weights and balances. Imported, Japan. 8 oz. 82 R 036.....NET 1.98

M DEXTRAFIX ARM POSITIONER. Gently and accurately raises or lowers pick-up arm with lever-type control. Stop is adjustable to all record sizes. Adjusts to any pickup arm height. Wt., 5 oz.

N WEATHERS PRESSURE GAUGE. Indicates pressure with calibrations from 0 to 10 grams. Shpg. wt., 5 oz.

Accessories for Custom Installations

FIBERGLAS ACOUSTIC INSULA-TION. Prevents distortion in speaker enclosures. 1x24x60". Wt., 2 lbs.

82 RX 042 NET 1.32

R AUDIOTEX REMOTE CONTROL.
Turns music system, or appliances on or off from any place in your home, by means of switches installed in outlets or cabinets. Capacity, 10 amps at 110-120 volts, AC. Supplied less wire (see 3-Conductor Wire, listed below).

30-300, Includes power control unit with 3 switches (add any number of switches desired-see below). Wt., 2 lbs.

82 R 044 NET 13.52 3-CONDUCTOR WIRE. 100-ft. coil. 2 lbs. 47 T 360 PER 100 ft. 2.43

15" PHONO DRAWER SLIDES. With ball bearings. Extend 11". 4 lbs. 82 R 046 NET 1.90 82 R 047. As above, but 13"..... NET 1.90 82 R 048. 18" Phono Drawer Slides. Extend 16". Shpg. wt., 5 lbs..., NET 3.50

FM 300-OHM TWIN LINE ANTENNA. Folded dipole. 6-ft. lead-in. 6 oz. 92 C 019 NET 99c

W UNFINISHED RECORD CHANGER BASES. With ball bearing drawer slides; pre-drilled holes. 3½x16½x14½".

Stock	No.	Pre-Cut For Use With:	NET
73 RX	042	Webcor 1000 Series	
73 RX	048	Garrard Type A	775
73 RX	045	Garrard AT6, "Autoslim"	7./3

7" METAL CASE. Wt., 31/4 lbs. 82 RX 028.....NET EACH 3.45

G WALCO ANTI-STATIC RECORD SPRAY. Deposits thin anti-static film on record surface. Aids in preventing records from accumulating dust and lint. In 6-oz. aerosol spray can. 7 oz. 82 R 030 NET EACH 88c

ROTRON EQUIPMENT COOLING FAN. New deluxe "Whisper Fan" inaudibly cools amplifiers, tuners, tape recorders, etc. Lengthens tube and equipment life—improves their performance. 411/6" sq. x 1 1/2" deep. 60 cfm. For 110-120 v. 60 cycle AC. 1 1/4 lbs.

82 R 031 NET 14.85



ALLIED



Audio Switches and Controls by AUDIOTEX



L-PAD VOLUME CONTROLS

Provide convenient remote control of speaker volume, with no loss of audio quality. Stereo types control both speakers simultaneously. Rated 10 watts; 20 watts peak. Screw-type terminals. With hardware, instructions. 8 oz.

DUO-JACK SWITCH BOXES

For feeding either of two different monophonic signal sources into a single amplifier input without changing cables. Switch selects which signal is to be fed into the amplifier. Two phono jack inputs, one output cable. Cable has 18" length and is tipped with phono plug.

MODEL 30-294 SURFACE MOUNT SWITCH BOX. For installation on shelf, wall, etc. Shpg. wt., 10 oz. 82 R 156. NET 1.76

MODEL 30-296 PANEL MOUNT SWITCH BOX. For mounting in wood panels to 3/4" thick. 10 oz.

82 R 157. NET 2.20

Stock No.	Model No.	Fig.	Impedance	Mode	Type of Mounting	NET
82 R 158 82 R 159 82 R 160	30-364 30-366 30-372	E	8 ohms 16 ohms 8 ohms	Mono Mono Stereo	Wall Plate—standard outlet box Wall Plate—standard outlet box Wall Plate—standard outlet box	2.91 2.91 5.00
82 R 161	30-374	E	16 ohms	Stereo	Wall Plate—standard outlet box	5.00
82 R 162 82 R 163 82 R 164 82 R 165	30-376 30-378 30-380 30-382	FFF	8 ohms 16 ohms 8 ohms 16 ohms	Mono Mono Stereo Stereo	Surface Mount—self-contained box Surface Mount—self-contained box Surface Mount—self-contained box Surface Mount—self-contained box	4.12 4.12 6.17 6.17
82 R 166 82 R 167	30-384 30-386	G	8 ohms 16 ohms	Mono Mono	Panel Mount—1" shank, dial plate Panel Mount—1" shank, dial plate	2.06 2.06

SPEAKER SELECTOR SWITCHES

Select any combination of 1 to 3 speakers. Switch matches impedances as various combinations of speakers are used. Screw terminals. Av. shpg. wt., 1/2 lb.

30-388 WALL PLATE. Stereo 82 R 170.....NET 3.23



SWITCHCRAFT Audio Switches and Controls

656 SPEAKER VOLUME CONTROL. Lpad with "Off" position-cuts off speaker completely. Brass wall plate-fits standard electrical outlet boxes. Rated 10 watts. 8 ohms. 4½x2¾x1¼". 10 oz.

82 R 172..... NET 4.09

655 MULTI-SPEAKER SELECTOR SWITCH. Selects any combination of 3 speakers. Brass wall plate-fits standard electrical outlet boxes. Maintains con-stant impedance regardless of switch position. Screw terminals. 41/2x23/4x11/8". Shpg. wt., 8 oz.

82 R 180. NET 3.3U 82 R 175. 655-S. Same as 655, except stainless steel wall plate NET 3.30 367 DUAL VOLUME CONTROL ADAPT-ER. For two-channel, high-impedance circuits. Ideal for stereo. Two phono jack inputs, two phono plug outputs, with separate recessed volume controls. 8 oz.

82 R 185.....NET 4.50

670 STEREO SPEAKER SWITCH, 3-position-select either or both pairs of stereo speakers. Screw terminals. 8 oz.

82 R 186.....NET 3.70

662 STEREO-MONO SELECTOR WITH CHANNEL REVERSE. Switches from stereo to mono at amplifier input; plus channel reverse. Phono jacks. 1 1/2 x 2x2". Shpg. wt., 10 oz.

82 R 191......NET 2.06

655 SPEAKER-PHASE CONTROL. Provides proper phasing in stereo and other multiple speaker installations. Surface mounting, 2x2x1", 10 oz.

82 R 192..... NET 1.47

663 PHONO-TUNER ADAPTER. Feeds either of 2 monophonic signal sources into a single amplifier input. Phono jacks. Surface mounting, 2x2x1", 10 oz.

82 R 193..... NET 1.50 668 STEREO SELECTOR SWITCH. Feeds

both channels of any of 3 stereo sources into a stereo amplifier input. Phono jacks. Surface mounting. 2x2x1". 10 oz 82 R 194. NET 3.30

Audio Switches and Controls by VIDAIRE





For Multi-Speaker Installations



MS-12



SE-8



RS-10



RF-10



SPEAKER SELECTOR SWITCHES. Quality switch panels for multi-speaker monophonic or stereo systems. Wiring instructions include details on selecting the correct resistors to maintain proper impedance. Less resistors. Include 31/4x 23/8", brass plates, hdwe. 8 oz.

MS-6. Switches up to 6 speakers in monophonic installations.

MS-12. As above, but controls 6 pairs of speakers for stereo, or 12 speakers in monophonic applications.

82 R 197......NET 2.64

STEREO SPEAKER EQUALIZER WITH PHASING · SWITCH. L-pad controls adjust speakers in stereo system for equal output. Minimizes need for unbalancing amplifier. Includes phasing switch. Brass plate. Hdwe. 23/4x41/2x21/8". 10 oz.

82 R 198. Model SE-8. 8 ohm.

82 R 200. Model SE-16.16ohm. EA. 7.17

RS-102-SPEAKER SELECTOR SWITCH. 3 positions—selects either or both of 2 speakers. Brass plate. With hardware. 21/8x21/8x13/4".8 oz. 82 R 201.....NET .98

RF-10 SPEAKER FADER CONTROL. Provides variable distribution of volume between main speaker and remote speaker. Decreases volume of one speaker while increasing volume of the other (does not maintain constant impedance). For 4-8 ohm speakers. Rated 5 watts. Brass plate. Hdwe, 21/2x21/2x1 3/4", 8 oz. 82 R 202. NET 1.15

SP-5 SPEAKER PHASING SWITCH. Reverse polarity of one of two stereo speakers when necessary to insure proper phasing. Brass plate, 21/8x21/8". 4 oz 82 R 203. NET 1.05



GENERAL INDUSTRIES MODEL TR. 3speed phono motor with 9" turntable. 2-pole motor. 33 \(\frac{1}{3} \), 45 and 78 rpm. With 45-rpm adapter. 31 \(\frac{1}{2} \)x2x5 \(\frac{3}{4} \)x5 \(\frac{3}{4} \). Requires 1 \(\frac{1}{3} \) below mtg. plate. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

79 R 115. List, \$12.45.....NET 7.47

GENERAL INDUSTRIES MODEL DSS. Not illus, 3-speed phono motor with 10" turntable. 4-pole, shaded-pole motor. 33 1/3, 45 and 78-rpm. With 45-rpm adapter, "On-Off" switch. 43/x65/8x61/16". 221/32" below mtg. plate. For 110-120 volts, 60 cycle AC. 61/2 lbs.

79 R 107. List, \$25.75......NET 15.45

GENERAL INDUSTRIES MODEL SS. Not illus. Phono motor with 8" turntable. 2-pole motor; 33 1/3, 45 and 78 rpm. With 45 rpm adapter. 315/16x413/32x43/4" without turntable. 215/3" below mtg. plate. For 110-120 v., 60 cycle AC. 4 lbs.

.NET 6.57 79 R 108. List, \$10.95... GENERAL INDUSTRIES MODEL RM4-3 PHONO MOTOR. 33 1/3-rpm phono motor with 10" turntable. Heavy-duty, rim-drive 4-pole motor-rubber insulated from mounting plate for quiet operation. 336x 3 1/6 x3". Requires 215/6" below mtg. plate. For 110-120 v., 60 cycle AC. 9 lbs. 79 R 105......NET 15.90

GENERAL INDUSTRIES SERIES BX BATTERY-OPERATED PHONO MO-TORS. Dependable phono motors that operate on four flashlight cells (below). 2pole enclosed motor has self-lubricating bearings. Model BX has neutral "off". shift lever can be placed on either side of the turntable. 61/2x41/2x23/4". Require 2" space below mtg. surface. 1 lb.

Stock No.	Model	8 RPM	NET EA.
79 R 100	BXX	45, 33½, 16¾	10.20
79 R 102		78, 45, 33⅓	10.65
79 R 101		45	8.85

TYPE 2 BURGESS BATTERY. For all Series BX phono motors. Use 4. 6 oz

GENERAL INDUSTRIES D-10 RECORD-ER MOTOR. Heavy-duty 4-pole, shadedpole induction type. For use in almost any tape, wire or disc recorder being made. Clockwise or counter-clockwise rotation. 1/70 HP; free speed, 1740 rpm. Max. running torque: 11 oz./in.15/6" dia. shaft. 3 1/8 x 33/8"; 3" below mtg. plate. For 110-120 v., 60 cycle AC. 3 lbs.

79 R 106. List \$15.00.....NET 9.00 ALLIANCE JPT8. 3-speed phono motor with 8" turntable. Constant speed, rubber shock-mounted 2-pole motor. 33 1/3, 45 and

79 R 114. List \$13.50......NET 7.94 RCA 240X1 PHONO SWITCH. For operation of record players through radios that do not have a phono input. With plug. cable, instructions, 6 oz.

80 R 104. List \$3.35 NET 1.96



REK-O-KUT M-12S OVERHEAD RE-CORDING LATHE. Used in DR. Inter-changable with M-12. Less head. 20 lbs.

......NET 150.00 81 RC 112. REK-O-KUT RH-5 CUTTING HEAD. For M-12S. 8 ohms, 1 lb.NET 115.00 ASTATIC X-26 CRYSTAL CUTTING HEAD. High impedance; response to 6 kc. Requires approx. 150 v. (rms) drive. 13/8x 5/8x31/4". 24" leads. 1 lb.

81 RC 125. NET 7.53

ASTATIC M41-8 MAGNETIC CUTTING HEAD. 8 ohms; connects to amplifier. 7 kc response, Requires 3 v. (rms). 1 lb. 7.53

REK-O-KUT R8B RECORDING AMPLIFI-ER. For making professional recordings with DR disc cutter (at right). Response, 20-20,000 cps at 20-watt output. Distortion: harmonic, 0.32% at 1000 cps at full output; IM, 0.825%. 4 inputs: mike, tape and phono mixing, tuner. Outputs: speaker and cutter, 4, 8 and 16 ohms; monitor, 2000 ohms. VU meter. In portable carrying case. 51/4x19x61/2". For 110-120 v., 50-60 cycle AC. 25:1bs.

79 RU 001......NET 225.00

79 RZ 002. REK-O-KUT Imperial II Disc Recorder. Consists of DR disc cutter (right) and R8B recording amplifier. 70

REK-O-KUT DR DISC CUTTER. Professional cutter with M12S overhead lathe. Operates at 33 1/3 and 78 rpm; has idler and adapter for 45 rpm. Makes masters from 6" to 131/4". Accepts all standard vertical mounting cutting heads. 120 line leadscrew; interchangeable with leadscrews to 270 lines. Can be hand cranked for runin spiral grooves. Hysteresis motor. Calibrated timing scale. S-120 arm with dual sapphire magnetic pickup plays up to 12" records. With RH-5 cutting head; 50-13,000 cps (left). Uses standard short-shank needle. Portable case. 7x10x20 1/2". For 105-125 v., 60 cycle AC. 45 lbs.

AUDIODISC RECORDING BLANKS

Recording blanks smooth-coated on both sides of aluminum base. Red Label discs exceed the most exacting needs for highest quality professional recordings. Yellow Label discs are for general purpose work in studios and schools; Blue Label for home recording; have same highquality lacquer as professional discs, but on thinner aluminum base. Types marked



Aluminum Base Blanks

Stock	Size	Label	Base	Wt	Lbs.,	Std.	NET E	T EACH	
No.	3126	Lauci	Dase	Ea.	Pkg.	Pkg.	Single Lots	Std. Pkg	
80 R 007	7"*	Red	.050"	5 oz.	5	25	1.01	.90	
80 R 003-	8"	Red	.040"	5 oz.	. 5	25	.79	.72	
BOR 004	10"	Red	,040"	6 oz.	81/2	25	1.12	1.01	
80 R 005	12"	Red	.050"	9 oz.	131/2	25	1.83	1.66	
80 R 008	7"*	Yellow	.050"	5 oz.	.5	25	.85	.77	
BOR 009	8"	Yellow	.040"	5 oz.	5	25	.67	.60	
BOROIO	10"	Yellow	.040"	6 oz.	81/2	25	.89	.80	
80 R 011	12"	Yellow	.050″	9 oz.	131/2	25	1.44	1.29	
80 R 000	61/2"	Blue	.027"	3 oz.	61/2	50	.39	.35	
100 F 08	8"	Blue	.027"	4 oz.	71/2	50	.55	.49	
80 R 002	10"	Blue	.027"	5 oz.	101/2	50	.78	.71	

- DISC CUTTING NEEDLES -

AUDIOPOINTS. High-quality recording needles. For all professional and non-professional recorders. Types 14, 20 and 34 have 87° included angle. All have .003" tip radius except Type 20, .0005". Shpg. wt., 2 oz.

Stock No.	Type	Description	NET EA.
81 R 102 81 R 109 81 R 103 81 R 108	20	Sapphire, short dural shank As above, for microgroove Sapphire, long dural shank As above, for microgroove	4.85
81 R 106 81 R 107		Stellite, short brass shank Stellite, long brass shank	1.47

KNIGHT STEEL CUTTING NEEDLES. Short shank. Have .003" tip. Av. cutting life, 20 minutes. 3 oz. 81 R 101. Pkg. of 5...... NET 59c KNIGHT SAPPHIRE CUTTING NEEDLE. Short shank. Has :003" tip, Av. life, 5 hrs. 2 oz. 81 R 100. NET EACH 3.88

GUMMED RECORD LABELS. Shpg. wt. per-pkg., 2 oz. 80 R 100. 4 or more Pkgs., Ea. 41c NET PER PKG... 45c

Quality Exact-Replacement Monophonic Needles KNIGHT

Top-quality monophonic replacement needles at low, low prices. All are precision made to rigid Knight specifications. All have sapphire tips except *osmium. Letters or numbers following the word "Series" in listings below, cover all cartridges whose type numbers begin with these letters or numbers. Wt., 2 oz.

FOR			

Stock No.	Туре	Fig.	Fits Cartridge Numbers	Tip	EACH
81 R 598 81 R 599 81 R 600	JPS-30 JPS-30LP JPS-312	1	P30, P37, P57, P70, P71, P72, P72V, P73, P76, P76V, P77, P79, P81, P81AD, P85, P88, 89, P94, PN30, PC41V, PC42; Series W21, W22, W23, W26, W60, W61, W65, W65B, W66, W68, WC22	Std. MG All	.98
81 R 535 81 R 537 81 R 538 81 R 661 81 R 539 81 R 540	JPS-32 JPS-32LP JPS-322 JPS-39 JPS-35 JPS-36	2 2 2 3 4 4	W31AR, W36B, WC24, WC31AR, WC33B, WC36B, PC9, PC10, PC11, PC40 WC-6, PC-6, PC-7 PC2,PC-3,P7,P8, P9, W9, WC10 PC4, PC5, ML-44	Std. MG All Twin Twin	.98 .98 .98 2.48 1.38 2.48

FOR SONOTONE CARTRIDGES

81 R 546	S-60LP	26	Series 3P	MG	1.38
81 R 547	S-61	27	Series 3T	Twin	1.38
81 R 548 81 R 754		26	Series 1P	MG	1.38
81 R 550		27	Series 2T; 7T; W-9980;	THE .	1.30
		7	Magnavox560161-1:RCA78748	Twin	1.38

FOR BLAUPUNKT, GRUNDIG, TELEFUNKEN

81 R 637 RX552-LP 30 P-	7000	MG 98
	145 / A	1 110

NEW LOW PRICES ON DIAMOND NEEDLES



Twin tips come with sapphire for 78's but may be specially ordered with twin diamonds. †Also Blaupunkt, Telefunken. 2 oz.

Diamo	nd Needle		Assett	Equivalent	NET
Stock No.	Type No.	Fig.	For	Sapphire	EACH
8 R 644 8 R 658 8 R 645	A-67LPD A-68SD A-74LPD A-75LPD A-81LPD	6	Astatic Astatic Astatic Astatic Astatic	A-67LP A-68 A-74LP A-75LP A-81LP	1.99
8 R 610 8 R 647 8 R 625 8 R 627	A-41 SD A-43 SD E-90 LPD E-36 SD E-37 SD	13 16	Astatic 81TX Astatic 89TX E-V E-V 56DS E-V 76DS		4.49 4.49 1.99 4.49 4.49
81 R 523	G-4D		G.E. G.E.	RPX Series 4G-041, 050, 052, 053, 061, 063, VR11	1.99
81 R 648 81 R 660 81 R 649 81 R 602 81 R 650	RX552LPD M-50SD PH-13SD CRA-55LPD CRA-57LPD JPS-30LPD	25 21	† Grundig Magnavox Philco Ronette Ronette Shure	RX552LP M-50 PH-13 CRA-55LP CRA-57LP JPS-30LP	1.99
8 R 651 8 R 652 8 R 653 8 R 654	JPS-35SD JPS-36SD M-70LPD M-74LPD S-60LPD	4 4 18 19 26	Shure Shure RCA RCA Sonotone	JPS-35 JPS-36 M-70LP M-74LP S-60LP	1.99
81 R 655 81 R 656	S-61 SD S-66 SD VA-29 LPD	27 27 22	Sonotone Sonotone Vaco	S-61 S-66 VA-29LP	1.99

FOR ASTATIC CARTRIDGES

Stock No.	Туре	Fig.	Fits Cartridge Numbers	Tip	EACH
81 R 552	A-67	5	94-TB, 405, 406,	Std.	.98
81 R 554	A-67LP	5	Series: 62, 64, 66, 68	MG .	.98
81 R 555	A-672	5	361103. 02, 04, 00, 08	All	.98
81 R 556	A-68	. 6	Series: 57-T	Twin	1.38
81 R 557	A-71	6	Series: 55-T, GCD, 409	Twin	1.38
81 R 560	A-70*	7	1	Std.	.58
81 R 561	A-70LP*	7	Series: 14L3, 15L3	MG	.58
81 R 565	A-702*	7		All	.58
81 R 566	A-73	8		Std.	.98
81 R 567	A-73LP	.8	LT-3D, LT-4,LT-4D,LT-4D1.		.,,
*		1 1 3	LT-AG	MG	.98
81 R 568	A-732	.8	j'	All	.98
81 R 569	A-74	9		Std.	
81 R 570	A-74LP	9	Series: 402, 51, 53, 59, GC, MG	MG	
81 R 572	A-742	9		All	
81 R 575	A-75	10	1012 1112 0-1-10	Std.	.98
81 R 577	A-75LP	10	10L3, 11L3, Series AC, ACD,	MG	
81 R 578	A-752	10	[40, 41, 42, 90]	All	
81 R 579	A-81	11	Series: CAC, CQ, LOD, OT	Std.	0.0
81 R 580	A-81LP	îî	36, 38, 44, 46, 48; 403j;	MG.	.98
81 R 581	A-812	11	Magnavox 560052	All	.78
81 R 583	CRA-55LP	12	Series: 310, 312, 414, 420,	MG	.98
81 R 584	CRA-55	12	422, 424	Std.	.98
81 R 623	A-41 1 8 4	13	81T . 18 - 1 . 3 P . 1 . 1	Twin	1.98
81 R 609	A-43	13	89T (\$	Twin	1.98
				2.	1170

FOR ELECTRO-VOICE CARTRIDGES

81 R 624 E-36 14 81 R 626 E-37 15 81 R 585 E-90 16 81 R 586 E-90LP 16	E-V 56 E-V 76 10,12,14,30,32,33,34,36,40,42, 43,44,46,80,82,84,86,96.	Twin 1.98 Twin 1.98 Std98
81 R 587 E-902 16 81 R 588 E-91 17	Admiral 409A13-1 16TT, 22TT	MG .98 All .98 Twin 1.38

FOR RCA CARTRIDGES

81 R 542 M-7 81 R 543 M-7		9890, 38598, 39550, 39851, 39919, 70332, 70338, 70339,	Std.
81 R 544 M-7 81 R 545 M-7	4 19	72551, 74067 74625, 75475, 75575, 76318, 77779	MG .98

FOR PHILCO CARTRIDGES 81 R 591 | M-60LP 81 R 662 | PH-13 45-1609, 45-1612 76-4649; 425-0009, 425-0014

- Fi	OR VAC	O CARTRIDGES	
81 R 516 VA-29 81 R 517 VA-29LP	22 P45 22 P45	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Std98
81 R 520 VA-292	22 S-4	101. 10.4. 1.4. 1.4. 1.4. 1.4. 1.4. 1.4.	Twin .98
81 R 612 J-352*	23 M-5		AH .58

FOR RONETTE CARTRIDGES

.58

81 R 584 CRA-55 81 R 583 CRA-55LP	12	Studio O, Studio P, RA-284, TO-284 Series TO-222, TO-400, 7447, DT-60, RA-395		00
81 R 604 CRA-57 81 R 603 CRA-57LP	24	DC-422 DC-500	Std. MG	.98

FOR GENERAL ELECTRIC CARTRIDGES

81 R 515	G-1	~ - 1	28	Series:	RPX		I MG	.98
81 R 636	G-4		29	4G-052,	053, 061,	063	MG	.98

FOR MAGNAVOX CARTRIDGES

81 K 59U	M-50	25	560133, 560133-4,	
			560151-5, 560151-6, 560158-1 Twin	1.38
-		-		STATISTICS.

v-cost stereo replacement needles from Knight. To assure est sound from records, check your needle tip regularly, and lace it at first signs of wear. You save money in the long run! stereo needles listed here have .000?" tip.

DUAL SAPPHIRE NEEDLES

e sapphire tip is for 78-rpm records. Av. shpg. wt., 2 oz.

tock No.	Туре	Fig.	For Cartridge Number	EACH
R 615 R 730 R 731 R 618 R 621	A-90X DU-13X E-46X	35 51 52 36 37	Astatic 13T; Electro-Voice 13 Astatic 17 Dual CS-73, CDS-73 Electro-Voice 66 RCA 106770A, 106771A	3.88 1.38 1.38 2.88 1.38
R 739 R 619 R 639 R 732 R 733	M-80X S-71X S-75X S-78X	54 33 44 45 46	RCA 110021, 110020 Sonotone 8T4, 8TA4 Sonotone 9TA Sonotone 12THS Sonotone 18TA	1.38
R 734 R 735 R 736 R 737	S-82X S-84X S-85X TE-19X	46 47 48 49	Sonotone 16TA Sonotone 12THSR Sonotone 12TLAS Telefunken SA20/2; T-20 Telefunken T-200; A-200	1.38

SINGLE SAPPHIRE NEEDLE

stereophonic records only. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	For Cartridge Number	PACH
	CRA-55X	34	Astatic 70 Series; Vaco Stereo; BSR Stereo	.98
R 740 R 666 R 613	E-98X	42 32 38	Columbia SC-1, SC-2, SC-7, SC-8 Electro-Voice 26 Euphonic E Series; Jensen 53, 55	.70
R 741 R 640 R 664	J-57X G-19X	53 39	Euphonic U Series; Jensen 80 G.E. VR-227 Ronette Stereo BF-40, P Series	.98 1.98 .98

MONOPHONIC NEEDLE-CARTRIDGES FOR ZENITH



- Light Tracking Force Minimizes Needle Talk, Record Wear
- Wide-Range Response
- High Compliance

ouotone direct replacement plug-in type needle-cartridges for enith "Cobra Arm" phonographs. Each is a complete assembly with unitized construction—stylus is coupled directly to inductive lement. When needle is worn, entire unit must be replaced. Perormance is unaffected by extremes in temperature or humidity. for all standard or microgroove records. Av. shpg. wt., 4 oz.

Stock No.	Zenith Type	Type No.	Stylus	EACH
81 R 631	Z-62	S-15780	Sapphire Diamond Sapphire Diamond Sapphire	1.88
81 RC 693	Z-62D	S-15780		7.95
81 R 632	Z-61	S-15222		1.88
81 RC 694	Z-61D	S-15222		7.95
81 R 633	Z-65	142-72		2.68
81 RC 695	Z-65D	142-72	Diamond	7.95
81 R 634	Z-64	142-71, 142-74	Sapphire	2.68
81 RC 696	Z-64D	142-71, 142-74	Diamond	7.95
81 R 635	Z-59	142-76, 142-77	Sapphire	3.98
81 RC 697	Z-59SD	142-76, 142-77	Diamond	8.95

New Low Prices on Stereo Diamond and Sapphire Needles



Protect your valuable records with precision polished diamond needles. And save —diamond needles outlast all others by more than 2 to 1.

DUAL NEEDLES-DIAMOND AND SAPPHIRE

Sapphire tip is for 78 rpm records. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	For Cartridge Number	EACH
81 RC 689 81 R 742 81 R 744 81 RC 690 81 R 622	A-44XSD A-90XSD DU-13XSD E-46XSD M-77XSD	35 51 52 36 37	Astatic 13TX; Electro-Voice 13D Astatic 17 Dual CS-73; CDS-73 Electro-Voice 66D RCA 106770A, 106771A	5.99 1.99 1.99 5.99
81 R 753	M-80XSD	54	RCA 110021, 10020	1.99
81 R 620	S-71XSD	33	Senotone 8T4, 8TA4	
81 R 641	S-75XSD	44	Senotone 9TA	
81 R 745	S-78XSD	45	Senotone 12THS	
81 R 746	S-80XSD	46	Senotone 18TA	
81 R 747	S-82XSD	46	Senotone 16TA	
81 R 748	S-84XSD	47	Sonotone 12THSR	1.99
81 R 749	S-85XSD	48	Sonotone 12TLAS	
81 R 750	TE-19XSD	49	Telefunken SA20 /2; T20	
81 R 751	TE-20XSD	50	Telefunken T-200; A-200	
81 R 673	W60-XSD	40	Webster Electric	
81 R 674	W61-XSD	41	Webster Electric	

SINGLE DIAMOND NEEDLE

For stereophonic records only, Av. shpg. wt., 2 oz

Stock No.	Type	Fig.	For Cartridge Number	EACH
81 R 669 81 R 671 81 R 667 81 R 614 81 R 752 81 R 642	CRA-55XD CS-1XD E-98XD J-47XD J-57XD G-19XD	34 42 32 38 53 39	Astatic 70 Series; Vaco Stereo; BSR Stereu Columbia SC-1, SC-2, SC-7, SC-8 Electro-Voice 26 Euphonic E Series; Jensen 53, 55 Euphonic U Series; Jensen 80 G.E. VR-227	1.99
81 R 643 81 R 665 81 RC 687 81 RC 688 81 RC 698 81 R 672	G-20XD CRA-57XD JPS-40XD JPS-41XD JPS-42XD W-59XD	39 31 43 43 43 34	G.E. VR-225 Ronette Stereo Cartridges Shure M7D Dynetic Shure M3D Dynetic Shure M21D Dynetic Webster Electric	1.99 1.99 6.49 12.99 13.99

CONVENTIONAL-SHANK PHONO NEEDLES— LOW COST SAPPHIRE AND OSMIUM TYPES

Economy-priced needles fit cartridges with screw-type chucks. Sapphires are recommended for minimum record wear. *Have flexible nylon material from tip to shank to reduce pickup of record scratch. Wt., 2 oz.



Stock No.	Type No.	Fig.	Stylus	Tip Size	NET
81 R 592 81 R 593 81 R 594 81 R 595 81 R 596 81 R 597 81 R 5663	NY-253* J-10 NY-252* NY-152* J-152 NY-251* I-252	B B B C B	Sapphire Osmium Sapphire Osmium Osmium Sapphire Sapphire	Standard Standard All-purpose All-purpose Microgroove All-purpose	.98 .58 .98 .58 .58

ABOUT KNIGHT
PHONO NEEDLES...

Knight diamond needles are made by Jensen Industries to Allied's exacting specifications. All are precision crafted from whole diamonds having a 55 degree surface—assuring you longer record and needle life, plus superior fidelity. You can always rely on Knight quality needles.



DUAL-NEEDLE TURNOVER CARTRIDGES

For 78, 45, 33 \(\)_3 and 16\(\)_3 rpm records. Crystals treated to resist heat, humidity. Sapphire needles; .001" for microgroove, .003" tip for standard records. *Ceramic—all others Rochelle-salt crystal. †Subminiature. ‡Less bracket. Av. wt., 4 oz.

Stock No.	Model	Fig.	Replaces Astatic	Volts	CPS	List	NET
81 R 219 81 R 241	40-T 40-TB	H	ACD, 10L3 ACD-1 series	1.0	50-6000	6.95	4.09
81 R 212 81 R 252 81 R 236	55-T 57-T* 62-TY	CCD	ACD-2 series, 11L3 GCD series 57-TJ series LQD-1 series	1.0 0.7 0.7 1.0	50-6000 30-15,000 30-15,000 50-7000	8.45 7.95 9.50 7.95	4.97 4.67 5.59 4.67
81 R 766 81 R 013 81 R 253	64-TS‡ 66-TS 66-TY‡	B D D	64-T(M)S 66-T(M)S, 68-TS LT-4D1, 14L3-DM,	3.0 3.0	50-5000 50-5000	6.95 7.25	4.09 4.26
81 R 209	118-TS+	F	15L3-DM, 6-T(M)Y, 68-T(M)Y	3.0 0.75	50-5000 30-13,000	6.50 6.45	3.82 3.79
81 R 210 81 R 200 81 R 201 81 R 301 81 R 269	120-TS† 310-T‡ 312-TS 314-TS‡ 316-TS	FEFFF		3.0 3.0 0.75 3.0 0.75	30-11,000 30-11,000 30-13,000 30-11,000 30-13,000	6.45 5.45 6.45 5.45 5.95	3.79 3.20 3.79 3.20 3.50
81 R 303 81 R 220	406‡ 409* 410	D C P	F-22(Webster) 409A11(Admiral)	3.0 0.7 0.8	30-5000 30-15,000 50-6000	7.95 9.50 6.50	4.67 5.59 3.82
81 R 202 81 R 203 81 R 204 81 R 304	420-TS-TB 422-TS-TB 424-TS‡ 426-TS‡	FFFF		3.0 0.75 3.0	30-11,000 30-13,000 30-11,000	5.45 5.95 6.50	3.20 3.50 3.82
01 11 304	720-134	-	A-204(Webster)	3.0	30-11,000	7.50	4.41

ALL-GROOVE CARTRIDGES

.002" sapphire needle, except \$.002" osmium, for mono records. \$Less needle—screw-type chuck for conventional needle. *Moisture resistant; ceramic. Others Rochelle-salt crystal. 4 oz.

8 R 250 16 8	G 16L3, 17L3	3.5 50-5000	3.95 2.32
8 R 234 22 6	G L-29, L-92-33, 18L3	3.0 50-5000	3.95 2.32
8 R 2 3 28 6	L M-22, M-23	3.5 50-6500	3.95 2.32
8 R 243 40-2	M AC-AG series	1.0 50-10,000	6.50 3.82
8 R 25 51-2*	J GC-AG series	0.7 30-10,000	7.40 4.35
81 R 224 66-2† 81 R 305 1068 81 R 205 310-2 81 R 307 414-2 81 R 310 416-2	G LT-2M, LT-5AG, 68-2 141-AGM 15L3-AGM (Webster) K E (Ronette) E (Ronette)	3.0 50-5000 3.5 50-5000 3.0 30-11,000 3.0 30-11,000 0.75 30-13,000	4.95 2.91 4.95 2.91 4.95 2.91 4.45 2.62 5.45 3.20

STEREOPHONIC CARTRIDGES



SERIES 70 CRYSTAL CARTRIDGES. .0007", .003" sapphires; 18 db sep.; 2 v.; 50-10,000 cps. *With brackets. Shpg. wt., 3 oz.

Stock No. Type			List	NET
DI N 3141 /415	· KK	Astatic 120TS, VM 7447A Astatic 314TS Ronette T1, Ronette OV1	7.25 7.25	4.26 4.26 4.67

PLUG-IN CARTRIDGE ASSEMBLIES. Ceramic; 25 db sep.; 0.5 v.; 20-15,000 cps. Fit 7/16 to 1/2" mtg. Shpg. wt., 3 oz.

-	No.	Type	Description	List	NET
81 R 81 R	255	11T7 11T7B 13AT	Two .0007" sapphires; less bracket Two .0007" sapphires; with bracket .0007", .003" sapphires; less brkt.	7.95	4.09 4.67 4.67
8 RC 8 R 8 R 8 R	256 258	13ATX 13T 13TB 13TBX	.0007" diamond, .003" sapphire; less brkt0007", .003" sapphires; less brkt0007", .003" sapphire tips: with brkt	13.95 6.95 7.95	8.20 4.09 4.67 7.02

MICRO-GROOVE CARTRIDGES

Crystal type, except *ceramic, unaffected by heat and humid .001" sapphire needle for 45 and 331/3 rpm records. Nee pressure, 10 grams, except \$8 grams, \$76 grams. Av. wt., 4

Stock No.	Туре	Fig.	Replaces Astatic	Volts	CPS	List	1 N
81 R 242 81 R 237 81 R 217 81 R 268 81 R 244 81 R 206	51-1* 62-1 310-1‡ 408	M J P K P E	AC series GC series 62-1-M	1.0 0.7 3.0 3.0 0.8 3.0	50-10,000 30-15,000 50-50,000 30-11,000 50-6,000 30-11,000	6.50 7.40 4.95 4.95 4.45 4.45	34222

STANDARD-GROOVE CARTRIDGES

High-output crystal types, except *ceramic type. Use .0 needles. §With osmium needle; others less needle—have scretype chuck for conventional needle. Av. shpg. wt., 4 oz.

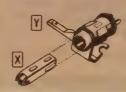
	R 228		W	B-2 (Magnavox)	2.5	50-4000	9.00	5
81	R 227	4	S	L-22A, L-26A, L-27A	1.4:	50-4500	4.45	2
81	R 226	6	S	L-40A, L-41A	0.6	50-4500	4.45	2
	R 232		T	L-10, L-12	4.0	50-5000	4.45	2
81	R 233	12-U	T	L-12U	1.25	50-5000	4.95	2
81	R 230	24	S	L-25A, series L-70				
				L-71, L-75, L-76	1.0	50-4000	4.95	2
	R 231	26	S	L-46A, L-50A, L-72A	3.5	50-4000	4.95	2
81	R 237	32	S	L-24A, L-36A, L-82A				
		272.10	1	L-92, L-92A, 34	3.5	50-5000	4.45	2
	R 299	66-3	G	Series R30	3.0	50-5000	4.95	2
81	R 225	402*5	R	402A	0.7	50-10,000	7.95	A

CERAMIC STEREO TURNOVER CARTRIDGES

SERIES 17 CARTRIDGES. (Not illus.) 20-20,000 cps; 25 separation. Tracking force, 4-5 grams; .35 v. Replaces E-V series, RCA 106770A, 106771A, Sonotone 8TA4 series. 4

Stock No.	Type	Description	List	NET
81 RC 355	.17	.0007", .003" sapphires	14.75	8.67
81 RC 356	17D	.0007" diamend, .003" sapphire	19.75	11.6

SOUNDFLO CARTRIDGE-NEEDLE COMBINATION



Plug-In Units Consisting of Cartridge and Needles



Ceramic monophonic cartridges. 30 to 15,000 cps. Tracki force, 6 grams. Housing takes "plug-in" cartridge-needle co bination. Flip-over mounting bracket: .001" for LP's, .003" for 78 Type 91T replaces Webster V8-1D. Webcor A1919, E-V 76S; Ty 91TX, Webster V8-2D, Webcor A-1920, E-V 76DS; Type 93T, E 56S, Webster V8-1, Zenith 142-80; Type 93TX, E-V 56DS, Webs V8-1D, Zenith 142-83. "S"—sapphire; D—diamond tip. *W mtg. bracket; turnover holder. Av. wt., 4 oz.

Stock No.	Туре	Fig.	Tip	Volta	List	NE
81 R 207 81 R 208 81 R 214 81 RC 344	81TB* 81T 81TX 81TBX*	Z&Y Z Z Z&Y	S001", S003" S001", S003" D001", S003" D001", S003"	1.0 1.0 1.0	4.95 3.95 7.95 8.95	2.9 2.3 4.6 5.2
81 R 272 81 RC 376 81 R 215 81 R 216 81 RC 345	89-1 89-1D 89-T 89TB* 89TX	Z Z Z Z&Y Z&Y	S001" D001" S001", S003" S001", S003" D001", S003"	1.3 1.3 1.3 1.3 1.3	4.25 ,10.25 4.95 5.95 10.95	2.5 6.0 2.9 3.5
81 RC 351 81 R 311 81 RC 396 81 R 312 81 RC 398	89TBX* 91T 91TX 93T 93TX	Z&Y X X Z Z	D001", S003" S001", S003" D001", S003" S001", S003" D001", S003"	1.3 1.0 1.0 1.0 1.0	11.95 3.95 9.95 3.95 9.95	7.0 2.3 5.8 2.3 5.8



MONOPHONIC TURNOVER CARTRIDGES

mic cartridges protect against distorting effects of heat and ture—prevent hum pickup. Require no preamp or equaliza-High compliance for precision tracking. Series "2TA" can y be used with stereo recordings. Cartridges with suffix "D" be number have diamond styli; "S" have sapphire styli; "SD" dual styli—one sapphire and one diamond. I volt output, pt *0.5 volt. For ½" to ½" mounting centers, except fless ket for narrow pickup arms. Av. shpg. wt., 3 oz.

SERIES 2TA CARTRIDGES

ock No.	Туре	Styli	List	EACH
!48	2TA-S	S003", S0007"	\$5.65 9.70	3.32 5.70
358	2TA-SD 2TA-LB-St	D-,003", S-,0007" S-,003", S-,0007"	5.65	3.32

SERIES 3T WIDE-RANGE CARTRIDGES

SPIKITO OI A			
360 3T-S* 362 3T-SD*	S001", S003" D001", S003"	7.75	4.56 7.29

-REPLACEMENT NEEDLES-

licates replacements for stereo cartridges, at right. 2 oz.

k No.	Type	Tip	For	List	EACH
533	NIP-1S	S001"	Series 1P	\$2.25	1,32
249	N2TA-S	S003", S0007"	Series 2TA	2.50	1,47
3 679	N2TA-SD	D0007", S003"	Series 2TA	5.50	3,23
532	N3T-S	S001", S003"	Series 3T	2.50	1,47
2 686	N3T-SD	D001", S003"	Series 3T	5,50	3.23
2 702	N8TA4-SD*	D0007", S003"	Series 8TA4	5,50	3.23
755	N9916-S*	S0007", S003"	Series 9TA	2,50	1.47
756	N9916-SD*	D0007", S003"	Series 9TA	5,50	3.23
800	N9916-S*	S-,0007", S-,003"	Series 16TA	2.50	1.47
801	N9916-SD*	D-,0007", S-,003"	Series 16TA	5.50	3.23
630	N18TA-S*	S-,0007", S-,003"	Series 18TA	2.50	1.47
C 692	N18TA-SD*	D-,0007", S-,003"	Series 18TA	5.50	3.23

1 PICKUP ARM WITH 12T STEREO CARTRIDGE

ality plastic pickup arm with crystal cartridge installed. tridge has .0007" and .003" sapphire styli. Shpg. wt., 4 oz.

ck No. Type Description List EACM 263 T81-12THRS Gray plastic; high output 7.45 4.38 264 T81-12TLAS Gray plastic; low output 7.45 4.38 265 T11-12THRS Brown plastic; high output 7.45 4.38 266 T11-12TLAS Brown plastic; low output 7.45 4.38					
264 T81-12TLAS Gray plastic; low output 7.45 4.38 265 T11-12THRS Brown plastic; high output 7.45 4.38	ck No. I	Type	Description	List	EACH
	264 265	T81-12TLAS T11-12THRS	Gray plastic; low output Brown plastic; high output	7.45 7.45	4.38 4.38

Lectro VOICE TURNOVER CARTRIDGES

" indicates sapphire; "D"—diamond. *Not turnover type.

RIES 20 STEREO CARTRIDGES. Low distortion, high chanseparation. 7/6" to 1/2" mtg. centers. Av. wt., 3 oz.

tock No.	Type	Fig.	Styll	Output	Fist	EACH
IC 403 IC 413 IC 402 IC 407	21* 21D* 22* 22D*	BBAA	.0007S .0007D .0007S .0007D	500 mv 500 mv 20 mv 20 mv	\$9.50 15.00 12.50 18.00	5.59 8.82 7.35 10.58
IC 401 IC 407 IC 399 IC 406	26 26D 27 27D	B B A	.0007S/.003S .0007D/.003S .0007S/.003S .0007D/.003S	500 mv 500 mv 20 mv 20 mv	10.50 16.50 13.50 19.50	6.17 9.70 7.94 11.57

SERIES 60 STEREO "POWER POINT" CARTRIDGES. Wide range, low distortion. Tracking force: 2-8 grams. Require Iding mechanism listed below, at right. Wt., 4 oz.

tock No.	Type	Styli	Fits	List	EACH
R 292 RC 386 R 294 RC 391	61 61D 66 66D	.0007S/.0007S .0007D/.0007S .0007S/.003S	PFT-3 PFT-3 PT-3 PT-3	\$5.95 12.95 5.95 12.95	3.50 7.61 3.50 7.61

SERIES 100 STEREO "POWER POINT" CARTRIDGES. 5 contacts, High capacity elements for improved bass response, gh compliance, low tracking force. Av. wt., 3½ oz.

R 281	101	.0007\$/.0007\$	PT-4	5,95	3.57
RC 381	101D	.0007D/.0007\$	PT-4	12,95	7.77
R 282	106	.0007\$/.003\$	PT-5	5,95	3.57
RC 382	106D	.0007D/.003\$	PT-5	12,95	7.77
R 726	107	.0007S/.0007S	PT-6	5.95	3.57
RC 727	107D	.0007D/.0007S	PT-6	12.95	7.77
R 728	108	.0007S/.003S	PT-7	5.95	3.57
RC 729	108D	.0007D/.003S	PT-7	12.95	7.77

STEREOPHONIC TURNOVER CARTRIDGES

Quality ceramic cartridges for replacement use and for converting monophonic phonos to stereo. Feature low distortion, excellent response, high channel separation, and high vertical and lateral compliance. Have standard ½" and ½" mtg. centers. Series "8TA4" mount on ½" centers. Av. shpg. wt., 4 oz.

SERIES 8TA4 CARTRIDGES. 0.3 volt output.

Stock No.	Type	Styli	List	EACH
81 RC 392	8TA4-S	.0007" and .003" sapphires	\$8.75	5.14
81 RC 405	8TA4-S-77	Two .0007" sapphires	8.75	5.14
81 RC 414	8TA4-SD	.0007" diamond; .003" sapphire	13.00	7.64

SERIES 9TA SUPER CARTRIDGES. 0.35 volt output.

81 RC 377	9TA-S	.0007" and .003" sapphires	8,35	4.91
81 RC 379	9TA-SD	.0007" diamond; .003" sapphire	13.00	7.64

SERIES 10T PLUG-IN CARTRIDGES. 0.5 v. output.

61 P 969 10T9-S77	.0007" and .003" sapphires	9.70	5.70
	.0007" diamond; .003" sapphire	13.00	7.64
	Two .0007" sapphires	9.70	5.70
	.0007" diamond; .0007" sapphire	13.00	7.64

SERIES 12T CRYSTAL CARTRIDGES. *2.5 v.; †1 v.

81 R 274 121HRS-7/4 10007 and 0007 sapphires 5.85 3.4 31 R 275 12TLA-S771 Two .0007" and his sapphires 5.85 3.4			5.85 3. 5.85 3.	
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SERIES 16TA, 18TA CARTRIDGES. *0.5 v.; †0.7 v.

81 RC 366	16TA-S*	.000?" and .003" sapphires	6.00	3.53
81 RC 367	16TA-SD*	.0007" diamond; .003" sapphire	9.75	5.73
81 RC 368	16TA-S77*	Two .0007" sapphires	6.00	3.53
81 RC 383	18TA-S†	.0007" and .003" sapphires	6.00	3.53
81 RC 384	18TA-SD†	.0007" diamond; .003" sapphire	9.75	5.73
81 RC 384 81 RC 385	18TA-S77†	Two .0007" sapphires	6.00	3.53

SERIES 916TA CARTRIDGES. (Not Illus.) .42 volt output.

81 R 723 81 RC 724	916TA-S .00	07" and .003" sapphires 07" diamond; .003" sapphire	7.15	4.20 6.63
81 R 725	916TA-S77 Tw	o .0007" sapphires	7.15	4.20



C SERIES 50 MONO "POWER POINT" CARTRIDGES. Ceramic. Require holder below. "S"—sapphire; "D"—diamond.

rainic. r	xequile i	loider per	OW. C Cappilli			
Stock No.	Туре	Code	Styli	Oz.		EACH
81 R 505 81 R 504 81 RC 678	51 56 56D	Red Blue Orange	Two S-,001" S-,001", S-,003" D-,001", S-,003"	3 3 3	\$3.95 3.95 9.95	2.32 2.32 5.85

D SERIES 76 MONO "POWER POINT" CARTRIDGES. For Webcor phonos. "S"—sapphire; "D"—diamond.

81 R 506 81 RC 680	76S 76D	White Pink	S001", S003" D001", S003"	3 3	3.95 9.95	2.32 5.85

HOLDING MECHANISM. For "Power Point" cartridges. Have 1/16", 1/2" and 5/8" mounting centers. Wt., 1/2 oz.

Stock No.	Type	For Models	List	EACH
81 R 284	PFT-1	51, 52-2, 53-3	\$1.00	59c
81 R 287	PT-2	56, 56D	1.00	
81 R 297	PT-3	66, 66D	1.00	
81 R 298	PFT-3	61, 61D	1.00	
81 R 267	PT-4	101, 101D	1.00	
81 R 267	PT-5	106, 106D	1.00	





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Tuck in your shirt, grab your partner and dance away to Pennsylvania Polka, Beer Barrel Polka, Clarinet Polka, Helena Polka and 19 other favorites. Shpg. wt. 2 lbs. Pkg. of 2-12" LP's.

Mono. 25 RR 013. Mfr's. 2010......1.98 Stereo. 26 RR 000. Mfr's. 0631..... 1.98

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25 RR 005. Mfr's. MGWP-3......2.98

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Enjoy the lyrics and music of five all-time great Broadway musicals at a cost of less than \$1.00 per record. The shows: Oklahoma, Gigi, My Fair Lady, The Sound of Music and South Pacific. Such tunes as Rain in Spain, I Caint Say No, Bali Hai, etc. 3 lbs. Pkg. of 5—12" LP's.

Mono. 25 RR 011. Mfr's. 2001.....4.94

Stereo. 26 RR 003. Mfr's, 0622......4.94

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The wonderful music and arrangements of the big bands of the 30's and 40's that of the big bands of the 30's and 40's that brought fame to Glenn Miller, Tommy and Jimmy Dorsey, etc. Selections include: Boogie Woogie, Song of India, Chatanooga Choo Choo, Blue Champagne, Story of a Starry Night, Very Funny Valentine, American Patrol, etc. Shpg. wt., 3 lbs. Pkg. of 5—12" LP's. Mono. 25 RR 011. Mfr's. 2004.4.94

Stereo. 26 RR 003, Mfr's. 0625.......4.94

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A sparkling array of music from the "good old days" for dancing, listening, singalong, on fine hi-fi records. Such memoration able tunes as: Turkey in the Straw, Yellow Rose of Texas, It's Never Too Late, etc. 3 lbs. Pkg. of 5—12" Mono LP's. 25 RR 007. Mfr's. MGWP-5.....4.94

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100 choice selections from famous musicals as Gigi, Sound of Music, Music Man, cals as Gigi, Sound of Music, Music Man, etc., performed by: Hi Los, Ink Spots, Dick Haymes, Gisele MacKenzie, and others. Selections include: Ball Hai, Rain in Spain, Maria, Do-Re-Mi, Can-Can, etc. Wt., 2 lbs. Pkg. of 8—12" LP's.
Mono. 25 RR 108. Mfr's. TMT-104. 9.95

Stereo. 26 RR 006. Mfr's. TST-104. 9.95

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Stereo. 26 RR 003. Mfr's. 0623.....4.94

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100 tunes that never lose their giplayed by five of America's best. Wo Herman, Charlie Barnet, Russ Morg Francis Bay and Gordon Jenkins p Blue Skies, Begin the Beguine, Temption, 'S Wonderful, I Can't Get Stantetc. Wt., 2 lbs. Pkg. of 7—12" LP's.

Mono. 25 RR 008. Mfr's. TMT-106...9

Stereo, 26 RR 006, Mfr's, TST-106, ...

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Three greats exhibit piano virtuos
Erroll Garner plays Deep Purple, Bon
Boy, Cologne, Scatterbrain, etc. Jan A
gust offers Miserlou, Honey Bun, Septe
ber Song, Malaguena, etc. Eddie H
wood renders Soft Summer Breeze, La
of Dreams. Hey There Let's Fall in Lo of Dreams, Hey There, Let's Fall in Lo etc. 2 ibs. Pkg. of3—12" Mono LP's. 25 RR 005. Mfr's. MGWP-8.....2.

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Everyone's favorites, including: Old De Moon, Wish You Were Here, September Song, Yellow Rose of Texas, Kiss Again, The Sidewalks of New York and others. Wt. 2 lbs. Pkg. of 4—12" LP's. Mono. 25 RR 014. Mfr's. 2012.....3.

Stereo. 26 RR 002. Mfr's. 0633..... 3.

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Stereo. 26 RR 001. Mfr's. 0632.....2.

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reo. 26 RR 001. Mfr's. 0629.......2.98

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ry Kaapuni and his Royal Polynesians ort you musically through our 50th e. Listen to: Blue Hawaii, Red Sails in Sunset, Harbor Lights, Aloha Oe, To Sweetheart Aloha, Luau Lei, Kula Ha, waiian War Chant, and many more.
, 2 lbs. Pkg. of 2—12" LP's. no. 25 RR 013. Mfr's. 2009.....1.98

reo. 26 RR 000. Mfr's, 0630.1.98

LATIN DANCE FAVORITES

Vigorous interpretations of Latin American music for everyone. Dance the Cha Cha Cha, Rhumba, Tango, Mambo and many others. Played by Perez Prado, Art Mooney, Jose Cubano, Nick Arnold and orchestras. Wt., 2 lbs. 4—12" LP's. Mono. 25 RR 014. Mfr's. 2005......3.96 Stereo. 26 RR 002. Mf 's. 0626. 3.96

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A wide variety of pleasing, lively music for singing, dancing or toe-tapping. Features: Banjo and Percussion, Silent Film Music, Sing Along favorites, More Honky Tonk Piano, famous George M. Cohan songs, Barber Shop Favorites, College Glee Club Songs, songs of the Roaring 20's and Naughty Nineties. Top performers. Shpg. wt., 5 lbs. Pkg. of 9—12" LP's.

Mono. 25 RR 017. Mfr's. 2013.....7.99 Stereo. 26 RR 005. Mfr's. 0634......7.99

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Just check these cool offerings: Stan Getz and Horace Silver play Penny, Split Kick, Sweetie Pie, etc. Jonah Jones does Jumpin' on 57th, Manhattan Blues, etc. Errol Garner improvises-Cloudburst, Variations on a Nursery Rhyme, etc. Char-lie Parker Combo offers Bongo Beep, Bird Feathers, etc. Parker, Gillespie and Davis play Hallelujah, Dynamo, Get Happy, etc. 3 lbs. Pkg. of 5—12" Mono LP's. 25 RR 015. Mfr's. BAR-5.....8.49

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Stereo. 26 RR 007, WGMS-2A......7.95

VOL. II. Some of the artists: Eckstine, Ferguson, Basie, Ellington, Armstrong, etc. 3 lbs. Album of 5—12" LP's. Mono. 25 RR 016. Mfr's. WGM-2B. 6.95

Stereo. 26 RR 007. WGMS-2B......7.95

PARIS IN MUSIC

A musical peek into the kaleidoscope of Parisian life: Gaite Parisienne, Passionate Paris, Parisienne Accordion and Cafes of Paris, Songs: C'est Magnifique, Allez-Vous En, Paris in the Spring, etc. Shpg. wt., 2 lbs. Pkg. of 4—12" LP's.

Mono. 25 RR 014. Mfr's. 2006.....3.96

Stereo, 26 RR 002. Mfr's. 0627.....3.96

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DS-5009, Latin Themes. Don Catelli. Brazil, Taboo, Amapola, Mama Inez, etc.

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DS-5014. Dixie. Dick Cathcart. Bill Bailey, Royal Garden Blues, March, etc.

DS-5015. Spanish Music. Moreno-Buendia. El Vito, El Tripili, Tango, etc.

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	Re	cord	31 .	Tape				
anguage	Stock No.	Mfr's Type	EACH	Stock No.	Mfr's Type	EACH		
rench	25 RR 906	L10	2.98	27 RR 008	LTF10	5.95		
erman	25 RR 906	L11	2.98	27 RR 008	LTF11	5.95		
alian	25 RR 906	L12	2.98	27 RR 008	LTF12	5.95		
ussian	25 RR 906	L13	2.98	27 RR 008	LTF13	5.95		
panish	25 RR 906	L14	2.98	27 RR 008	LTF14	5.95		

ALLIED'S AND RECORD

The records on this page represent only a small sampling available from Allied's vast stock. Write for FREE discount catalog—ask for Stock No. 26 RR 999.

Portable Phonos and Radio-Phonos of Fine Qua



STEREO RADIO AND PH

A stereo phonograph plus an FM-dio combining convenient portabil superior reproduction. Excellent sound is ensured by two remote sp with 8" woofers and 4" tweeters, pro a wide frequency response of 30 cps. Each remote has 12' of ca proper stereo spread. Automatic changer plays 4 speeds, handling gently and smoothly. Shuts off autoally after the last record has played mixes all size records of same s plays 10—12", 12—10" or 14—45 rp ords. Lightweight pickup arm ha over stereo cartridge with diamond for LP's and sapphire for 78's.

Radio receives FM multiplex, str. FM and AM. Features sensitive circulated AFC control that locks in FM str. Front panel has every control neudual Bass, Treble and Loudness; Baland Stereo Separation /AFC. Acabinet is of textured tweed—mile and capril grays. Size: cabinet, 10½ 22½"; each remote, 8½x13½x5". Vrpm spindle. Less legs, below. For two 60 cycle AC. Wt., 45 lbs.

79 RX 321-J. Sp Monthly... NET 16 79 RX 321-J. Brushed Brass Leg above. 16". Shpg. wt., 5 lbs...... NE





STEREO PHONO WITH REVERBERATION

This smartly styled phono allows you to inject reverberation into stereo sound when you want it, adding even greater depth to stereo. Has 8" speaker in main cabinet for lows—two 6" remote speakers, with 1¾ whizzer cones for mid-range and highs. Each remote has 12-ft. cable for stereo spread. Automatic record changer plays 4 speeds—gently handles 10-12", 12-10" or 14—45's. Ceramic turnover cartridge has diamond stylus for LP and 45's; sapphire for 78-rpm records. 5 fingertip controls: dual Bass, Treble and Loudness; Balance, and Reverb control. In gold and white leatherette tweed. Cabinet, 9¾x25x19¾"; each remote: 9¾x14x4½". With 45-rpm spindle. Less legs. For 110-120 v., 60 cycle AC. Shpg. wt., 40 lbs.

PORTABLE STEREO PHONOGRAPH

A stereo phono, pleasing to the ear and eye. Impressive so obtained from 8" speaker in main cabinet reproducing low and two remote 6" speakers with 1¾" whizzer cones, furn medium and high tones. Remotes can be separated up to 2 Automatic record changer accurately plays 4 speeds and off after last record has played. Turnover stereo cartridg diamond needle for LP's and 45's—sapphire for 78's. 4 cc quickly adjust sound to exactly suit your taste: dual f Treble and Loudness; Balance. Appealingly styled in gray erette trimmed with silver tic. Size: cabinet, 9¾x25x19¾"; remote, 9¾x14x4½". With 45-rpm spindle. Less legs. For 1 v., 60 cycle AC. 40 lbs.

gineered and Styled for Contemporary Living



A BUDGET-PRICED STEREO PHONO

attractively styled phonograph that offers excellent stereo nd. Low notes are carried by a 6" speaker in the main cabinet, e the mid-range and highs are produced by two 51/4" remotes.

remote cables allow up to 24-ft. stereo spread. Automatic nger plays 4 speeds—10—12" or 12—10" records. Shuts off last record. Turnover cartridge has diamond needle for and 45's—sapphire for 78's. In brown, white and brushed. Cabinet, 9½x20½x20½"; each remote, 6½x6½x4¾". Lessom spindle and legs, below. For 110-120 v., 60 cycle AC.

X 321-J. Brushed Brass Legs. 16". 5 lbs......NET 6.95 162-J. 45-rpm Spindle. 10 oz......NET 1.89

B STEREO PHONO AND FM-AM RADIO

n this moderately-priced unit, you can enjoy stereo records, as well as FM and AM broadcasts. Two 5 1/2" remote speakers 1 1/2" whizzer cones, reproduce full, rich stereo sound and be separated up to 24 feet for desired stereo spread—ence the sound of FM and AM, too. Record changer automat-ly plays 4 speeds, and intermixes all size records of the same ed-shuts off after last record. Smoothly handles 12-10", 12" or 14—7" records. Turnover cartridge has diamond needle LP's and 45's—sapphire for 78's. Radio has AFC circuit for free FM reception. Black diamond finish with accent striping t white and French gray. Cabinet, 8¾x20½x21½"; each ree, 8¾x10¾x4½". With 45-rpm spindle. Less legs. For 110-120 cycle AC. 35 lbs.

NET 112.50

XX 332-J. Satin Chrome Legs. 16". 5 lbs.NET 6.95

C LOWEST-COST STEREO PHONO

p-rated stereo phono providing excellent sound through 3 akers—one 51/4" speaker in the main cabinet and two 4" re-tes. Each remote has 8-ft. cable for up to 16 feet of stereo ead. Automatic changer plays 4 speeds, smoothly handling -12" or 12—10" records. Shuts off automatically and shifts to tral position after last record has played. Turnover crystal tridge has two sapphire needles. Has separate volume control each channel and dual tone control. Handcrafted all wood inet, plastic-coated in iridescent blue and gray. Size: Cabinet, x18x173/"; each remote, 81/x91/x31/". Less 45-rpm spindle. 110-120 v., 60 cycle AC. Wt. 31 lbs.



MANUAL 2-SPEAKER PHONOGRAPH

An inexpensive portable phonograph offering high-quality monophonic sound through a 4" Alnico V dynamic speaker and 2" whizzer cone. Has turnover cartridge with sapphire needles, and a built-in 45-rpm adapter. Charcoal and white. 12½x6½x10". For 110-120 volts, 60 cycle AC. Shpg. wt., 9 lbs.

79 RU 317-J. \$5 Monthly......NET 19.50

E 4-SPEED AUTOMATIC PHONOGRAPH

A low-cost portable phono featuring automatic record changing and excellent monophonic sound. Uses extended-range Alnico V speaker and whizzer cone. Changer shuts off after last record.



ELEGANTLY STYLED PROFESSIONAL GUITAR

You'll be thrilled by the brilliant sound of this handsome, double cutaway electric guitar. And you'll enjoy the way your fingers swiftly fly over the entire fret range of its thin, adjustable neck. Features Bigsby vibrato tailpiece and steel-reinforced hard maple neck. Top, back and sides are of select laminated curly maple. Oval rosewood fingerboard with inlaid genuine pearl markers, nickel-silver frets, and celluloid binding. Flat wound professional strings. Also has two pickup units with individual adjustable posts; separate controls and selector switch. Cremona violin-brown with golden sunburst. Hand-rubbed, polished finish.



TRIPLE and DUAL PICKUP GUITARS

TRIPLE PICKUP. Strum this smartly designed professing guitar and you hear a brilliant, room-filling response—an citing experience for player and audience. Yet its super audium size body is only 2" deep—comfortable to hold and professional Curly maple laminated body with arched top and back; and justable, steel reinforced maple neck. Celluloid-bound oval re wood fingerboard with six large hand inlaid blocks and ni silver frets. Heavy celluloid binding on top and back edges, r tiple inlay on top. Has three powerful sensitive magnetic pic units with adjusting posts for each string. Each pickup unit separate tone and volume controls. Total of six controls and

DUAL PICKUP. As above, but with 4 controls.

24 RU 722. Case for Above Guitars. 10 lbs.......... NET 12

LIGHTWEIGHT SEMI-SOLID GUITARS

C SINGLE PICKUP. An eye-appealing, beautifully proportion guitar that combines the pure, brilliant tone of the elect with the rich undertones of the acoustical guitar. Has tone volume controls. Hollow body is of laminated, crackproof ma Slim neck is steel-reinforced. Hard maple fingerboard has large, hand-inlaid markers and professional frets. Extra-w white celluloid binding on the top and back edges. Nickel-pla trapeze tailpiece, and top quality guitar strings. Has power sensitive magnetic pickup unit. Chrome-plated guardplate. tractive dark brown finish with shining supulsed to and backletic plant and backletic

TRIPLE PICKUP. Same as guitar above, but has three pick units, each with its own separate tone and volume control, p an instantaneous selector switch that lets you play each u separately or all three together. 24 RU 717.

24 RU 718. Case for Above Guitars. 10 lbs......NET 5



DELUXE 5-STRING BANJO

oin the folk song trend and sing long, string along with this lively string banjo. Makes perfect enertainment for informal gatherigs. Its laminated, crack-proof naple resonator gives a bright, parkling tone. Tough, celluloid-ound edge. Maple shell and neck -comfortable to hold—feels just ght. Attractive shaded brown finih with golden highlights on resnator. Sixteen nickel-plated rackets assure even tension on ne calfskin head. Has adjustable ension pegs. With clear, easy-tobllow, step-by-step instructions. lize, 38 1/4×12 3/4×4". 10 lbs. 4 RX 726......NET 39.95

bove, but has 4 strings.

4 RX 727 NET 39.95

A FULL-TONED FLAT-TOP GUITAR

It's easy to play this guitar-and fun, too. You get round, full tones and an excellent response. Features crack-proof laminated body construction, with a slimly-styled, steel-reinforced neck. Has a full 14-fret maple fingerboard. White-striped edge and sound hole, and a bright, reflecting metal tailpiece. With instructions and pick. Size,

38½x13¾x4". Less case, below. 10 lbs. 24 RU 711. NET 14.95

B FULL-SIZE ARCHED GUITAR

An expertly crafted guitar of super-auditorium size, that produces a large round tone. Has a fully arched, laminated crack-proof maple body. Its slim neck is steel-reinforced to resist twisting and warping. Has an adjustable bridge, and a celluloid guard plate. Attractive shaded reddish brown finish with golden sunburst. With easy-to-

24 RU 714. Case. Shpg. wt., 10 lbs........................NET 8.95

MELLOW FOLK GUITAR

Be the center of any folk music get-together with this easy-toplay, mellow-toned guitar. Attractively styled, with a natural white spruce top, offset by genuine mahogany back and sides. Neck is steel-reinforced-resists twisting and warping. Celluloid bound edges plus an extra inlay on the top edge. Sound hole is also bound in celluloid. Rosewood fingerboard with inlaid markers. Has classic type rosewood bridge. Beautiful hand rubbed and polished finish. With instructions, extra nylon strings, cord and pick. 41x151/2". Less case, below. Wt., 10lbs.

24 RX 723..... NET 39.95

24 RU 714. Case for Guitar Above. Wt., 10 lbs......NET 8.95

DELUXE 20-WATT SPEAKER AMPLIFIER

- · Has Two 10" High-Fidelity Speakers
- Vibrato Intensity and Amplitude Controls
 Housed in a Solid-Wood Cabinet
- With Stand-By and Separate On-Off Switches

superb speaker-amplifier engineered specifically to faithfully eproduce the wonderful tones of the electric guitars described in the facing page. Each of two channels has two inputs, and its iwn tone and volume controls. Vibrato circuit has input jack for a foot switch. Has 7 tubes. Attractive cabinet. Size, 20x24". For 10-120 volts, AC. Shpg. wt., 45 lbs.

A RX 728. \$5 Monthly NET 89.95

2-WATT SPEAKER-AMPLIFIER. Has 12" speaker and six ubes. Vibrato circuit with separate intensity and amplitude con-rols, plus on-off switch. Two channels, each with separate rolume controls and a master tone control. Input jack for foot witch. Stand-by switch. Handsome solid-wood cabinet. Size, 61/x201/x". For 110-120 volts, AC. Shpg. wt., 24 lbs.

-WATT SPEAKER-AMPLIFIER. Has 8" speaker, and 4 tubes. Built-in vibrato. Separate tone and volume controls; 2 vibrato controls and vibrato on-off switch. Jack for foot switch. 171/2x 143/4". For 110-120 v., AC. 20 lbs.



LINCOLN ... Finest Transistor Radios

Pocket Radios of Highest Quality at Economy Prices



LINCOLN 8-TRANSISTOR POCKET RADIO

9750

- Really "Pulls In" Distant Stations
- Precise Slide Rule Dial Tuning
- Large 21/4" Full-Toned Speaker
- Includes Leather Carrying Case

A transistor radio designed for the person on the go—the man or woman who wants a compact, smartly styled radio that can be depended on for excellent reception, long life and exceptional reliability. Weighs only 12 ounces—yet covers the entire AM band with extraordinary sensitivity. 8-transistor circuit pulls in distant stations with ease.

Has large 2½" speaker that delivers full-bodied sound, rivaling radios costing much more. Tuning is easy and extremely precise. "Full vision" slide rule dial lets you tune right in without any fumbling. Radio is supplied complete with convenient, durable genuine leather carrying case; earphone for late listening or whenever privacy is desired; and 9-volt battery. Compact size, 4½x2½x1". Imported from Japan. Shpg. wt., 14 oz.

24 SC 001-J. ONLY 17.50 55 J 119. Extra Battery. Shpg. wt., 2 oz. EACH 21c

LINCOLN 6-TRANSISTOR POCKET RADIO

\$1095

- Slips Easily Into Pocket or Purse
- Soft Pigskin Case and Earphone
- 6 Transistors, 1 Diode, 1 Thermistor
- Designed for Eye and Ear Appeal

A combination of three remarkable features makes this 6-transi tor radio the perfect companion to keep you posted on the late news, sports events and music. It's extremely compact—slip easily into your pocket or purse. It's "feather" light—there's refeeling of carrying a weight around. And it's quality-proven—pul in the entire AM broadcast band—plays through a big 2" speake with full-toned sound that lets you catch every word and even note without straining.

You'll enjoy this radio's economy—efficient low-drain circu adds hours of use to your battery. Tuning scale features larg \%" optic glass for fast station selection. With attractive leather carrying case, earphone for private listening and battery. 3\% 25\% x1\%". From Japan. 12 oz.

24 SC 027-J. ONLY 10.9



Attractively Styled Transistor

REALTONE 9-TRANSISTOR RADIO

\$2|95

- Has Full-Toned 23/4" Dynamic Speaker
- Operates From 4 Penlight Cells
- Sensitive Superheterodyne Circuit
- With Leather Case and Earphone

Highlights automatic volume control to ensure a steady signal and AGC to prevent fading when radio is moved. Large 2½ speaker delivers full-bodied sound. Ultra-modern tuning fact looks sharp and tunes sharp. Uses 4 cells that last a long time due to radio's low current drain. 3½x6½x1½". With earphone, leather case and batteries. From Japan. Shpg. wt., 2 lbs.

LINCOLN"... Tune in the World



14-TRANSISTOR FM-AM-SHORT WAVE RADIO

Only 5995

- 14 Transistors, 6 Diodes and 2 Thermistors
- Has FM Dipole Antenna in Handle
- Telescoping Shortwave Antenna
- AFC Circuit for Drift-Free FM Tuning

This powerful 14-transistor, 3-band radio puts the world right at your fingertips. No need to get the news second-hand—just tune in the shortwave band and get your news directly from Moscow, Paris, London or other centers of international interest. If you're in the mood for fine music, flip to the FM band and relax—you'll enjoy the big sound that pours out of the top-quality 3½" speaker Of course the AM band is available any time you want to hear popular music, a thrilling sportscast or favorite program. Uses 4 flashlight "C" cells that give up to 400 hours of dependable service between changes. Tuner and phono jacks. In slender black plastic case, 7½x9½x2½". With convenient earphone and batteries. Imported from Japan. Shpg. wt., 4¾ lbs.

24 SC 022-J. \$5 Monthly......ONLY 59.95 24 SC 024. Leather Case. Wt., 4 oz....NET 4.95 55 J 099. Battery. 2 oz......EACH 16c

10-TRANSISTOR 4-BAND PORTABLE RADIO

\$3995

- Hear AM, Short Wave and Long Wave
- Features Electronic Band Spreader
- Has Large, Full-Toned 3½" Speaker
- Slide Rule Dial for Precise Tuning

A very attractive, powerful 10-transistor portable radio that lets you get news at first hand from sources not ordinarily available. Features four tuning bands: long wave—130 to 380 kc; short wave—2 to 18 mc on two bands; and the entire AM broadcast band. There's nothing like the thrill of making personal contact with major cities throughout the world—and it's exciting to hear communications between ships at sea and aircraft in action. It's nice, too, to have popular AM shows available whenever you're in the mood. Dial calibrations are at 75, 49, 41, 31 and 25 meters for convenience. Has AGC, ferrite and telescoping antennas. In sharp black and chrome. 71/2x91/4x21/2". With earphone and batteries. From Japan. 43/4 lbs.

Portable Radios by Realtone

REALTONE 10-TRANSISTOR RADIO

\$3295

- Has Full-Toned 4" Speaker for Big Sound
- 10 Transistors, 2 Diodes, 1 Thermistor
- Built-In High Gain Ferrite Antenna
- Sensitive Circuit—4 Audio Stages

Big set performance! Features AGC stage to prevent fading when the radio is moved. Direct drive tuning is extremely precise. AVC assures steady signal—never any blasting or fading. Uses 4 flashlight "C" cell batteries. Top grain calf leather case is integral part of radio. 5½x9x2¾". With batteries. From Japan. Shpg. wt., 3¾ lbs.





9-TRANSISTOR 3-BAND PORTABLE RADIO

- Reduced \$2.93 From Last Year's Catalog
- Antenna Supplied For Each Band
- 21/2" Speaker for Big Sound
- With Leather Case and Earphone

A powerful portable with three bands for hours of pleasurable listening. On longwave you hear ships plying the oceans of the world, aircraft communications, etc. Shortwave band puts the world into your hand, and the entire AM band is at your service when you just want to relax. And you get all this in a radio so small that it slips into your coat pocket. Has detachable 10-section short wave whip antenna that clips to the pocket like a penextends to 29". Tunes 130-400 kc on long wave and 4-12 mc on short wave. 1 1/8 x 4 3/6 x 6". With case, earphone and 4 penlight batteries. From Japan. 1 1/2 lbs.

24 SC 002-J. \$5 MonthlyONLY 29.95

10-TRANSISTOR FM-AM PORTABLE

Only

- Up to 200 Hours on 4 Flashlight Cel
- 10 Transistors, 3 Diodes, 1 Thermisto
- Large 41/4x21/2" Oval Speaker
- Twin-Telescoping Whip Antennas

Enjoy pleasurable FM programs anywhere in the house, wherever you go outdoors, with this handsome 10-transist portable radio. You'll also appreciate the clear, crisp reception the AM band. Operation is economical—uses 4 flashlight "(cells that provide up to 200 hours of playing time. Features AV circuit to prevent fading and blasting; tone control for precis adjustment to suit your taste. Also has leather handle for eacarrying. Size, 5x8x2 1/4". With earphone for private listening ar batteries. Slim-lined in charcoal brown and ivory. Importe

55 J 017. Battery. 2 oz......EACH 13

Fine AM and FM Car Radios That Add to the Pleasure of Riding



6-TRANSISTOR AM CAR RADIO

A moderately priced AM car radio offering pushbutton ease an superior sound. Compact, all-transistor unit is easily installe beneath or into your dash—makes a handsome addition to the car's interior. Has 3 separate controls: off-on, volume and tone Pushbutton panel quickly and easily selects 5 stations. Operate in all cars—simply flip polarity switch to match the electrical system of your car. Features sensitive superhet circuit. Supplie with quality speaker and highly efficient antenna. For 6 or 1 volts, D.C. From Japan. Shpg. wt., 6 lbs. 24 SX 218-2J. \$5 Monthly **NET 39.9**

KINEMATIX FM CAR RADIO

Auto radio designed to provide the ultimate in FM reception Completely handwired, and specially engineered to absorb the shocks of driving. IF Bandwidth: 180 kc. Selectivity: 2.5 µv. for 2 db signal to noise ratio. AFC and AGC. Has four IF stages, two limiters and Foster-Seeley discriminator. Impedance: 4 ohms Capacity: 5 watts. Has tone control and fused input. 8 tubes, trensister. Mounts below death. For 10 vi. DC acceptances transister. Mounts below dash. For 12 v., DC neg. ground only Less speaker and antenna—can be used with present antenn

Allied Guarantees Your Satisfaction

Blank-Tape Bonus with Pre-Recorded Stereo Tape

FREE!

-1200 ft, reel of

lank tape when ou buy a tape be-

1200 FEET BEST QUALITY BLANK TAPE

2 for \$7,49

With the purchase of each 7" reel of 4-track, 3¾ ips stereo tape below, you receive one 1200-ft, reel of blank tape at no extra cost. Original price of pre-recorded tape, \$5.95; of blank tape, \$1.29; you save \$3.25. Or buy 2 for \$7.49 and save \$6.99. 1 1/2 lbs.

NK SPOTS. St. Louis Blues, Swanee River, Cuddle up a Little Closer, etc. Stock No. 27 RR 003. Mfr's STF3-801.

GREAT MARCHES. Vienna Army, French Paratroopers and Deutschmeister Bands. Stock No. 27 RR 003, Mfr's STF3-808.

HAWAIIAN, George Poole's Orchestra. Bali Hai, Hilo March, Blue Moon, etc. Stock No. 27 RR 003. Mfr's STF3-810.

SHEP FIELDS. Me and My Shadow, Haroor Lights, For Me and My Gal, etc. Stock No. 27 RR 003. Mfr's STF3-816.

LLOYD MUM. Tea for Two, Elmer's Tune, Champagne Waltz, Beer Barrel Polka, etc. Stock No. 27 RR 903. Mfr's STF3-818.

TED WEEMS. Heartaches, Mickey, On the Alamo, These Foolish Things, etc. Stock No. 27 RR 003. Mfr's STF3-824.

GEORGE LIBERACE. Blue Danube Waltz, They Can't Take That Away From Me, etc. Stock No. 27 RR 003. Mfr's STF3-829.

Any Tape Above, With Bonus Tape, EACH.....ONLY 3.99 2 For......ONLY 7.49 HAPPY HARMONICA. No Other Love, Yama Yama Man, La Cucaracha, Humoresque, etc.

Stock No. 27 RR 003. Mfr's STF3-843. SALUTE TO TOMMY DORSEY. Well Git It, Daybreak, This Love of Mine, etc. Stock No. 27 RR 003. Mfr's STF3-860.

SALUTE TO GLENN MILLER. Adios, In the Mood, Tuxedo Junction, etc Stock No. 27 RR 003. Mfr's STF3-861. PIPE ORGAN, Kibbe and Thomson, Dark

Eyes, Oh Promise Me, At Dawning, etc. Stock No. 27 RR 003. Mfr's STF3-881.

DANCING AT THE WALDORF. Carina, Piove, Man I Love, Mustafa, etc. Stock No. 27 RR 003. Mfr's STF3-882.

SOUNDS. Jet engines, sonic booms, trains, sports cars, speed boats, etc. Stock No. **27 RR 003.** Mfr's **STF3-885.**

DIXIE LAND. Wild Bill Davidson. Sweet Sue, Ballin' the Jack, Muskrat, etc. Stock No. 27 RR 003. Mfr's STF3-907.

Any Tape Above, With Bonus Tape, EACH.......ONLY 3.99 2 For.....ONLY **7.49** OLD TIMERS. After the Ball, Harrigan, Bicycle Built for Two, On the Banks of the Wabash, Side by Side, etc. Stock No. 27 RR 003. Mfr's STF3-911.

LONDON POPS ORCH. Ravel's Bolero, Seranati Espanol, Viva Navarra, Laura, Charmaine, La Paloma, Moulin Rouge, etc. Stock No. 27 RR 003. Mfr's STF3-918.

BROADWAY SONGS A! Goodman. Kansas City, Gigi, Love Look Away, Do Re Mi, Like a God, Some Enchanted Evening. Stock No. 27 RR 003. Mfr's STF3-930.

HONKY TONK PIANO. Elbows Bailey. Mr. Dooley, Chopin Nocturne, etc. Stock No. 27 RR 003. Mfr's STF3-932.

MUSIC OF THE BULL RING. Andaluzia, Gailto, Granada, Angelina, Toque, etc. Stock No. 27 RR 003. Mfr's STF3-934.

STRAUSS WALTZES. London Pops. 1001 Nights, Fledermaus, Vienna Blood. Stock No. 27 RR 003. Mfr's STF3-941.

Any Tape Above, With Bonus Tape, EACH.....ONLY 3.99 2 For. ONLY 7.49

ATTRIES OF MISH

Super Stereo Tapes—Up to 80 Minutes Playing Time



Only Each

Super 71/2-ips 4-track stereo tapes that play up to one hour and twenty minutes! Equal in playing time to 2-12" LP's or 2 regular 4-track tapes, these super tapes offer real price savings in addition to the luxury of longer continuous play. Outstanding performances by fine artists highlight the selections below. Wt., 1 lb.



BROADWAY!. 25 "show-stopping" funes by famous artists. Jane Morgan-Bushel and a Peck; Ella Fitzgerald-Manhattan; Margaret Whiting—Let's Begin; Pete King Chorale—Sound of Music; Mel Torme— Too Darn Hot; many more artists and all-time favorite selections.



5 CENTURIES OF MUSIC. Extraordinary selection from works by classical composers from Gabrieli to Khatchaturian. Includes Corelli, Vivaldi, Bach, Handel, Haydn, Mozart, Beethoven, Schubert, Dvorak, Tchaikovsky, others. Performed by the Bach Guild. 27 RR 006. Mfr's VTC-1700......6.95



SONG FAVORITES. Pete King—Willow Weep for Me; David Rose-Continental; Jane Morgan—Tammy; Frank Hunter— Avalon; Michael Leighton—I Only Have Eyes for You; Peter London—I Can't Get Started With You; Art Lund—A Quiet Life; more songs by these and other artists. 6.95



DANCE BEAT!. Montenegro-Patricia; Andre Previn-Guido's Blackhawk; Cyril Ornadel—Got You Under My Skin; Ira Ironstrings—Charleston; Dizzy Gillespie —Always; Tarrango—Anna; Mozian—Carioca; more listening and dancing music by these and other artists. 27 RR 004. Mfr's RL-405......6.95



MOOD MUSIC. Ferrante and Teicher-Stella by Starlight; David Rose-Thanks for the Memory; Raymond Lefevre-Paris in Stereo; Jose Melis-Sleeping Bee; John Trotter-Miserlou; Buddy Cole-I Cover the Waterfront; more. 27 RR 904. Mfr's RL-408......6.95



ROMANTIC AND NOSTALGIC MOODS. Tex Beneke-Chattanooga Choo Choo; George Greeley-Tonight; Martha Tilton-And the Angels Sing; Buddy Cole -Star Dust; Matty Matlock-Sensation; Don Tiare-Blue Hawaii; Shorty Rogers —Taboo; plus many more. 27 RR 005. Mfr's WSTC-1500.....6.95





MODEL 777-S4 PROFESSIONAL STERECORDER

Only

\$59500

- Ali-Transistor Design
- Complete Remote Control

Military-Type Modular Plug-In Circu

Brilliantly engineered all-transistor portable stereo tape record Records and erases 4-track. "Electro Bi-Lateral" playbo head—permits playing 2 and 4-track stereo and monopho tapes without head re-alignment or track-width compromi Two speeds—3¾ and 7½ ips. Has 3 head units, 3 motors, cluding a 2-speed hysteresis-synchronous drive motor. Pus button relay/solenoid controls. Remote control unit incorpora all tape functions. Two VU meters, automatic tape lifte military-type modular plug-in circuitry. Facilities for monitoring as well as sound on sound, echo and other special effects. F sponse (±2 db): 40-15,000 cps @ 7½ ips, 40-8,000 cps @ 3 ips. Flutter and wow, less than 0.15% @ 7½ ips. Takes 7" ree Less speaker-amplifier units (below) and mikes. With carryi case. 173/x16x9". Imported from Japan. For 110-117 v., 60 cyc AC. 50-cycle model available on special order. 50 lbs.

79 RU 419-J. 777-S2 Recorder. Same as above, but 2-track reco

79 RU 498-J. AS-777 Matching Speaker-Amplifier. 10-watt a phonic mixer. Battery-operated; supplied with battery. 16x153

MODEL 464-D "STERECORDER" STEREO TAPE DEC Make recordings of superior quality with the 464-D; play the through your stereo system. Built-in record and playback pr

amps for 4-track stereo and monophonic operation. Crea special effects, sound on sound, parallel tracks (ideal for mus and language training). "Magic-eye" level indicators, digit counter, tape lifters. With channel integrator control unit, 3% ar 7½ ips. Takes 7" reels. 13½x11½x6". Imported from Japan. F. 110-117 v., 60 cycle AC. 30 lbs. 79 RU 411-J. \$10 Monthly. NET 199.5

.....NET 199.5 79 RX 412. Carrying Case for 464-D. 10 lbs.........NET 25.4

MODEL 262-D STEREO TAPE TRANSPORT

Ideal for playing 4-track stereo and monophonic tapes throug

MODEL SRA-2 STEREO RECORDING PREAMP

For 262-D. Ideal for custom mounting, 80-kc bias freq, 35/x123/ For 110-117 v., 60 cycle AC. 13 lbs.

TRANSISTORIZED Deluxe 2-Speed Stereo Tape Deck TEICOL



NEWLY IMPROVED DESIGN-IN SEMI-KIT OR WIRED FORM

Semi-Kit

\$15 monthly

Wired

\$18 monthly

- 3 Specially Designed New Motor
- Precision-Balanced Flywheel
- Automatic End-of-Tape Stop Switch
- 14-Transistor Record/Play Pream

MODEL RP100K. Professional-quality 2-speed stereo tape deck with easy-toassemble transistorized record/play preamp. 3-head design permits 4-track stere and monophonic record/play, 2-track stereo and monophonic playback, plus direc monophonic record/piay, 2-track stereo and monophonic playback, plus direct monitoring, and sound-on-sound recording. New hysteresis-synchronous capstate motor, DC electrodynamic braking, tape lifters, two recording meters, separate mixing-type mike and high-level inputs. Response (±2 db): 30-15,000 cps at 7½ ips 30-10,000 cps at 3¾ ips. Takes 7″ reels. 135/16x15½x7½″. For operation from 110-12 v., 60-cycle AC. Shpg. wt., 48 lbs.

79 RZ 486-J. \$15 Monthly.

NET 299.9

.....NET 299.9 79 RZ 479-J. Model RP100W. As above, but factory-wired NET 399.9

ALLIED ORDER BLANK

or your money back

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ALLIED RADIO CORPORATION, 100 N. WESTERN AVE., CHICAGO 80, ILL., PHONE: HAymarket 1-6800 10 5 If You Have Moved Since Your Last Order Please do not write in this space. 4 If This Is Your First Order to Us write your old address here: please check here: Date Address Office Street State Post Other (Please specify) ON CREDIT FUND ORDERS SHIPPING CHARGES ARE ADDED TO YOUR ACCOUNT Вох Box State State Route Route City Zone No. Zone No. 2 Ship to Another Address? Give directions here: ☐ Truck (On Express or Truck Orders: Do not send money for shipping charges—charges will be 1 Please Print or Write Name and Address collected upon delivery. Express 3 How Shall We Ship? (Please include enough excess is refunded) 7 Parcel Post for postage; any Shipping Address Address City or Town Name. Street Name.

Shipping Weight Cash Orders Only

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> Foot, Set, Pair Roll, Pkg., Etc.

> > Description

Manufacturer's Type Number

Quantity

Stock Number

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Price Each





Only

- All-Transistor Design
- Complete Remote Control
- Military-Type Modular Plug-In Circui

Brilliantly engineered all-transistor portable stereo tape record Records and erases 4-track. "Electro Bi-Lateral" playba head—permits playing 2 and 4-track stereo and monophor tapes without head re-alignment or track-width compromi-Two speeds—3¾ and 7½ ips. Has 3 head units, 3 motors, cluding a 2-speed hysteresis-synchronous drive motor. Pus button relay/solenoid controls. Remote control unit incorporat all tape functions. Two VU meters, automatic tape lifte military-type modular plug-in circuitry. Facilities for monitoring as well as sound on sound, echo and other special effects. F sponse (±2 db): 40-15,000 cps @ 7½ ips, 40-8,000 cps @ 3 ips. Flutter and wow, less than 0.15% @ 7½ ips. Takes 7" ree Less speaker-amplifier units (below) and mikes. With carrying the control of the co case. 173/x16x9". Imported from Japan. For 110-117 v., 60 cyc AC. 50-cycle model available on special order. 50 lbs.

79 RU 419-J. 777-S2 Recorder. Same as above, but 2-track reco

79 RU 498-J. AS-777 Matching Speaker-Amplifier, 10-watt a phonic mixer. Battery-operated; supplied with battery. 16x153

MODEL 464-D "STERECORDER" STEREO TAPE DEC

Make recordings of superior quality with the 464-D; play the through your stereo system. Built-in record and playback pr amps for 4-track stereo and monophonic operation. Crea special effects, sound on sound, parallel tracks (ideal for mus and language training). "Magic-eye" level indicators, digit counter, tape lifters. With channel integrator control unit. 3½ ar 7½ ips. Takes 7" reels. 13½x11½x6". Imported from Japan. For the Accordance of the counter of the counte 110-117 v., 60 cycle AC. 30 lbs. 79 RU 411-J. \$10 Monthly....

..... NET 199.5

MODEL 262-D STEREO TAPE TRANSPORT

Ideal for playing 4-track stereo and monophonic tapes throug your music system. Just add preamp (below) for complete recording. Takes 7" reels. 5%x13x10". Imported from Japan. For 110-117 v., 60-cycle AC. Shpg. wt., 11 lbs.

MODEL SRA-2 STEREO RECORDING PREAMP

For 262-D. Ideal for custom mounting. 80-kc bias freq. 35/8x123/8 For 110-117 v., 60 cycle AC. 13 lbs.

FICOS TRANSISTORIZED Deluxe 2-Speed Stereo Tape Deck



NEWLY IMPROVED DESIGN-IN SEMI-KIT OR WIRED FORM

Semi-Kit

\$15 monthly

Wired \$18 monthly

- 3 Specially Designed New Moto
- Precision-Balanced Flywheel
- Automatic End-of-Tape Stop Switch
- 14-Transistor Record/Play Pream

MODEL RP100K. Professional-quality 2-speed stereo tape deck with easy-toassemble transistorized record/play preamp. 3-head design permits 4-track stere and monophonic record/play, 2-track stereo and monophonic playback, plus directions. monitoring, and sound-on-sound recording. New hysteresis-synchronous capsta motor, DC electrodynamic braking, tape lifters, two recording meters, separate mixing-type mike and high-level inputs. Response (±2 db): 30-15,000 cps at 7½ ip. 30-10,000 cps at 3¾ ips. Takes 7″ reels. 136/16x15 %x7 ½″. For operation from 110-12 v., 60-cycle AC. Shpg. wt., 48 lbs. 79 RZ 480-J. \$15 Monthly.

.....NET 299.9 79 RZ 479-J. Model RP100W. As above, but factory-wiredNET 399.9

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ALLIED RADIO CORPORATION, 100 N. WESTERN AVE., CHICAGO 80, ILL., PHONE: HAymarket 1-6800

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each month as billed by you, which will include a service charge in accordance with the terms stated in your catalog; and if I elect to pay the full account within 30 days after the first billing date, there will be no service charge. For the purpose of obtaining credit, I make the following representations listed below.

MAIL ORDER RETAIL INSTALLMENT CONTRACT

PLEASE
SIGN
HERE

If your account was paid up 12 months ago or more, please fill in the information below and sign the contract on the line marked "X".

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TO OPEN AN

ALLIED CREDIT FUND ACCOUNT

No down payment is necessary! Please answer all questions shown below and sign the contract on the line marked "X". Your first order should be for at least \$20.00. You do not need to figure shipping charges; they are prepaid and will be added to your account.

NOTICE TO THE BUYER—MAIL ORDER RETAIL INSTALLMENT CONTRACT

Do not sign this contract before you read it. Under the law you have the following rights among others: a) To pay off in advance the full amount due and obtain a partial refund of the finance charge; b) Under certain conditions to redeem the property, if repossessed for a default.

FOR NEW ACCOUNTS

(ALSO FILL OUT BELOW IF ACCOUNT HAS BEEN CLOSED FOR MORE THAN A YEAR)

Account Agreement ALLIED RADIO CORPORATION, Chicago 80, Illinois. Please open a Credit Fund account for me. Lagree that each purchase made under this contract will

me. I agree that each purchase made under this contract will be subject to the following terms: Until the merchandise is fully paid for, title to and right to possession of the merchandise shall remain in you; Upon default in payment of any installment of the purchase price, you may without notice declare the entire balance immediately due and payable, and, if you so elect, repossess the merchandise, taking the same in satisfaction of the balance due; I shall pay an installment each month as billed by you, which will include a service charge in accordance with the terms stated in your catalog; and if I elect to pay the full account within 30 days after the first billing date, there will be no service charge. For the purpose of obtaining credit, I make the following representations listed below.

MAIL ORDER RETAIL INSTALLMENT CONTRACT

TO "ADD ON" AN ORDER

Just sign below—No questions to answer
—No down payment on "add on" orders.

ALLIED RADIO CORPORATION, Chicago 80, Illinois. Please add the merchandise on the reverse side as a purchase under my present Allied account. This purchase will be combined with my present account and I will pay on the one combined account according to the contract terms set forth in your current catalog and upon the conditions stated in my original contract.

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NOTICE TO THE BUYER-MAIL ORDER RETAIL INSTALLMENT CONTRACT

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in satisfaction of the balance due; I shall pay an installment

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ecording Equipment

ave \$88.00

CS-300 STEREO TAPE SYSTEM

- Top Savings
- Superior Quality
- Complete Versatility

deluxe stereo tape system-at savings of \$88.00! Complete cilities for 2 and 4-track stereo and monophonic playback and cording. System includes: Sony CS-300 Sterecorder with 2 namic mikes and carrying case; Sharpe HA-10 professional reo headset; 20—7" reels of Knight KN-30 1800' "Plus-Play" be; Robins TK-4STD splicing and editing kit. The versatile 300 is packed with features: built-in 6-watt stereo amplifier d speakers, adjustable sound directors, hysteresis-synchronous ive motor, 2 VU meters, provision for FM stereo recordings. sponse (± 2 db); 50-15,000 cps at 7½ ips, 50-8,000 cps at 3¾ ips. pg. wt., 70 lbs.

RZ 413-J. CS-300 Sterecorder Only. With mikes and carrying se. 9x20x14". Imported from Japan. For 110-117 v., 60-cycle AC

Only

CS-464 HI-FI TAPE SYSTEM

ave \$66.80

 Built-In Speakers and Stereo Amplifier
 Channel Integrator for Sound on Sound Includes Two Dynamic Microphones;

Headset; Recording Tape; Tape Splicing and Editing Kit

ive \$66.80 on this outstanding stereo tape system. Records and ays back 4-track stereo and monophonic tapes. System inudes: Sony CS-464 recorder with 2 dynamic mikes and case, narpe HA-10 professional stereo headset, 10—7" reels of night KN-30 1800' "Plus-Play" tape, Robins TK-4STD splicing id editing kit. The CS-464 is the same as the 464-D listed on the cing page, but it includes a built-in 6-watt stereo amplifier and peakers, channel integrator for sound-on-sound recording, id adjustable sound directors. Shpg. wt., 60 lbs. HF 862-J. \$15 Monthly......NET 305.50

RU 417-J. CS-464 Only. With dynamic mikes and carrying case.







262-SL HI-FI TAPING OUTFIT

- Save \$31.89
- 5 Stereo Tapes
- Sound on Sound

connect to any stereo system for playback if 2 and 4-track stereo tapes. 4-track monophonic record and playback. You get: Sony 262-SL recorder with case, ear-phone and dynamic mike; 10—600' reels of Knight KN-15 tape; Robins TK-4STD ape kit, TE-128 booklet; 5 reels of incoln pre-recorded 4-track stereo tapes.

Shpg. wt., 37 lbs. 90 HF 646-J.....NET 205.50

79 RU 414-J. 262-SL Only. Case, earphone. mike. 7x14x11". From Japan. For 110-120 v., 60 cycle AC. 21 lbs....................NET 199.50



111 "TAPECORDER" OUTFIT

- Save \$7.88
- Plays at 1 ½ and 3¾
- Level Indicator

You'll get top performance from this compact recorder. Records and plays 2-track monophonic tapes at 1 1/4 and 3 1/4 ips. Has built-in amplifier, speaker, level indicator, record interlock, mike and radio inputs. With mike and empty reel.

You also get a 600' reel of tape, splicer, tape cleaner kit and editing and splicing book. 43/x83/x73/". Coral and white. Includes external speaker output jack. From Japan. For operation from 110-117 v., 60-cycle AC. Shpg. wt., 16 lbs. 20 RU 331-2-J. \$5 Monthly. NET 80.50 79 RU 409-J. 111 Only. 14 lbs. 79.50



161 "TAPECORDER" OUTFIT

- Save \$10.98
- Tape Lifter
- Dynamic Mike

Capture the sounds of children at play, narrate home movies. Everything you need for easy recording. Records and plays 2-track monophonic tapes at 3% and 7% ips. Includes level indicator, automatic tape lifter. With dynamic mike and empty plastic take-up reel.

You also get 3-600' reels of tape, splicer, tape cleaner kit, editing and splicing book and "How to Make Better Recordings" book. 61/2x13x10". From Japan. For 110-117 v., 60-cycle AC. 28 lbs.

20 RU 330-2-J. \$6 Monthly. NET 100.50 79 RU 415-J. 101 Only. 26 lbs.99.50

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CS-300 STEREO TAPE SYSTEM

- Top Savings
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- Complete Versatility

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pg. wt., 70 lbs. HF 861-J. \$19 Monthly.......NET 405.50

RZ 413-J. CS-300 Sterecorder Only. With mikes and carrying se. 9x20x14". Imported from Japan. For 110-117 v., 60-cycle AC

Only

CS-464 HI-FI TAPE SYSTEM

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Built-in Speakers and Stereo Amplifier
 Channel Integrator for Sound on Sound

Two Dynamic Microphones; Includes Headset; Recording Tape; Tape Splicing and Editing Kit

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RU 417-J. CS-464 Only. With dynamic mikes and carrying case. 1/2×13 1/2×8 1/2". Imported from Japan. For 110-117 v., 60 cycle AC npg. wt., 40 lbs......NET 299.50







262-SL HI-FI TAPING OUTFIT

- Save \$31.89
- 5 Stereo Tapes
- Sound on Sound

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- Save \$7.88
- Plays at 1 % and 3 %
- Level Indicator

You'll get top performance from this compact recorder. Records and plays 2-track monophonic tapes at 1 1/4 and 3 1/4 ips. Has built-in amplifier, speaker, level indicator, record interlock, mike and radio inputs. With mike and empty reel.

You also get a 600' reel of tape, splicer, tape cleaner kit and editing and splicing book. 4½x8½x7¾". Coral and white. Includes external speaker output jack. From Japan. For operation from 110-117 v., 60-cycle AC. Shpg. wt., 16 lbs. 20 RU 331-2-J. \$5 Monthly...NET 80.50 79 RU 409-J. 111 Only. 14 lbs. 79.50



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You also get 3-600' reels of tape, splicer, tape cleaner kit, editing and splicing book and "How to Make Better Recordings" book. 61/2x13x10". From Japan. For 110-117 v., 60-cycle AC. 28 lbs.

20 RU 330-2-J. \$6 Monthly. NET 100.50 79 RU 415-J. 101 Only. 26 lbs.99.50



Versatile, Wide-Range Recorders L

Tandbera

PROFESSIONAL QUALITY RECORDERS



NEW MODEL 64 4-TRACK STEREO DECK

- Records/Plays 4-Track Stereo/Mono
- Three Speeds-1 1/8, 3 1/4, 7 1/2 ips
- Hysteresis-Synchronous Drive Motor
- \$21 monthly Three Separate 4-Track Stereo Heads

New model of the renowned Model 6, now offers even more superb features. Three separate 4-track heads, including new ferritecore erase head, plus 2 record and 2 playback preamps permit stereo and mono recording, sound-on-sound, echo, etc. Also has multiplex filter. Response: ±2 db, 30-16,000 cps @ 71/2 ips; 40-11,000 cps at 3% ips; 50-5,500 cps at 1% ips. Flutter/Wow: under 0.1% @ 7½ ips. Cathode-follower outputs. 6x16x12". Wood base. Less mikes, below. U.L. Approved. For 115V, 60

79 R 446. 22-FP Foot Pedal. For remote operations. 79 RX 443. TC-56 Case. 6 lbs. NET 24.50 79 R 439. CM-6 Mike. 30-12,000 cps. 12' cable. 4 oz..........15.00

NEW MODEL 74 4-TRACK TAPE RECORDER

Record/Playback Preamplifier

Three Speeds, Synchronous Drive Motor

 Precision Record/Play Head, Erase Head \$18 monthly • Built-In Stereo Amplifier, Speakers

Deluxe 3-speed stereo recorder has built-in 6-watt stereo amfier and 2—7" speakers. Records and plays 4-track stereo mono tapes. Precision record/play head; ferrite-core erase he Lever controls forward, rewind, fast-forward, stop; "free" positions for threading. Record/playback/amplifier mode switch. S chronous motor. Separate stereo volume controls. Respon ±2 db, 40-16,000 cps @ 7½; ± 2 db, 40-10,000 cps @ 3¾; ±2 50-5,000 cps @ 1½ ips. Wow & Flutter: .15% @ 7½ ips. Mike a line stereo inputs, stereo cathode follower and speaker output Less mikes.15½x111¾6x6″.For110-120v.,60cycleAC.27lbs.

79 RU 440-J. Model 65 Tape Player. Same as Model 64, left,

Model T-347 4-Track Stereo Tape Deck



- Record/Playback Preamplifier
- 2 Speeds—3¾ and 7½-ips
 3 Heavy-Duty, 4-Pole Drive Motors
- Three Separate Precision Tape Heads
- Automatic Shutoff; Tape Lifters, Too

Get recording studio performance in your own home. The T-3 records and plays back 4-track stereo or monophonic tape Three separate precision 4-track heads-playback, record, ar erase—permit off-the-tape monitoring, echo, sound-on-soun "DuoSound" to add stereo effect to monophonic music source Three heavy-duty 4-pole motors, two spooling motors and a ca stan motor, control tape perfectly. Electro-dynamic braking sto tape without spillage, stretch or breakage.

Push-button controls select 3¾ or 7½ ips tape speeds, Off-Ru Rewind, Fast Forward, Standby. Has automatic shutoff; taj lifters; tape counter. Stereo mike and tuner inputs; amp. output headphone jacks, dual meters. Response: ±3 db, 18-16,500 cps 7½ ips. Flutter: below 0.2% @ 7½ ips. Takes 7" reels. Woo grained and chrome finish. 15½x13½ 7". For 110-120 v., 60 cyc

MODEL T-337 TAPE DECK. Records 4-track stereo and mon plays 2-track and 4-track stereo and mono. 29 lbs.

79 RU 456-J. \$15 Monthly....

79 RU 455-J. Model T-333 Tape Transport. As above, but les record/playback preamplifier. Plays 2 and 4-track stereo monophonic tapes through any stereo amplifier with "tape head inputs (for recording, must be used with separate stereo record ing preamplifier). 23 lbs.....NET 179.1

79 RU 457. Model 300-CC Portable Carrying Case. For above

194

upright or horizontally.















Magnetic Tape Heads

No-Mount

SEH

No Mount

Nortronics

2-TRACK AND 4-TRACK STEREO AND MONOPHONIC TAPE HEADS

CORD/PLAYBACK HEADS. Professional-type laminated res except SLS types. Response: 30-15,000 cps at 7½ ips. osstalk rejection on stereo heads: 50 db. Av. wt., 6 oz.

ERASE HEADS. Efficient double-gap construction, all metal case. High imp. types require 100-150 v. Medium imp. types require 30-50 v. For erase frequencies up to 100 kc. 6 oz.

For	Side-Mou	Base-Mount			
Heads	Stock No.	QK	Stock No.	QK	
6	81 RC 951 81 RC 952 81 RC 953	#20	BI RC 955	#21	

DUIK-KIT" MOUNTING KITS, For conrting no-mount heads in table, right, to

FOR	10		المتناق فينوا	
Heads	Stock No.	QK	Stock No.	QK
C	81 RC 951 81 RC 952 81 RC 953	#7()	RI RC 955	#21
ET EAC	н			1.00

TAPE HEADS DO WEAR OUT! You Can Check Them Yourself

Even the best tape head can wear. When it does, you lose much of the quality and response you get from tape. Here's how you check . . .

INSPECT HEAD FOR:

Worn spot—causes loss of highs.

B Vertical black line dividing either pole piece-causes loss of gain.



If head shows either or both symptoms, it needs replacement.

				IMP.	NO-MOU	NT	REAR-MOUNT		
MFR'S TYPE	DESCRIPTION	IND., MHY.	GAP, MILS	OHMS @60Kc	STOCK NO.	NET EACH	STOCK NO.	NET	
CSQ2K CSQ4K	4-tr. stereo, R/P high-imp, for tubes 4-tr. stereo, R/P low-imp, for transistors	750 100	0.10 0.10		81 RC 964 81 RC 965	21.00	81 RC 988 81 RC 989 81 RC 990	22.60	
CSQ4R CSQ7K	4-tr. stereo, record only, tubes /trns. 4-tr. stereo, R /P med-imp., tubes /trns. 2-tr. stereo, R /P high-imp. for tubes	60 350 700	0.50 0.10 0.16		81 RC 966 81 RC 967 81 RC 968	21.00	81 RC 990 81 RC 991 81 RC 027	22.60	
TLA3L TLA4L	2-tr. stereo, R/P med-imp., tubes /trns.	350	0.16		81 RC 969	23.30	81 RC 992		
TLASL TLASR SLA3L	2-tr. stereo, R /P low-imp. for trns. 2-tr. stereo, record only, tubes /trns. 2-tr. mono, R /P high-imp. for tubes	100 60 700	0.16 0.50 0.16		81 RC 972	23.30	81 RC 993 81 RC 994 81 RC 995	24.80	
SLA4L SLA5L	2-tr. mono, R/P med-imp. tubes/trns. 2-tr. mono, R/P low-imp. for trns.	350 100 60	0.16 0.16 0.50		81 RC 973 81 RC 974 81 RC 975	15.90	81 RC 996 81 RC 997 81 RC 998	17.40	
SLA5R SLS1L	2-tr. mono, record only, tubes /trns. 2-tr. mono, R/P high-imp., solid core	900 350	0.16 0.16		81 RC 976 81 RC 977	8.40	8 R 007 8 RC 999	9.90	
SLS3L SLF3L SLF4R	2-tr. mono, R/P med-imp., solid core Full-track, R/P medium impedance Full-track, record only, low-imp.	250 70	0.16 0.50		81 RC 978	33.20	81 RC 900	34.70	
SEQ1 SEQ4	4-tr. stereo erase, high-impedance 4-tr. stereo erase, medium-impedance	80 10			81 RC 980	12.00	81 RC 902	13.50	
SEH1 SEH4	2-tr. stereo erase, high-impedance 2-tr. stereo erase, medium-impedance	80		. 2 K	81 RC 982 81 RC 983 81 RC 984	12.00	81 RC 903	13.50	
MEH1 MEH4	2-tr. mono erase, high-impedance 2-tr. mono erase, medium-impedance Full-track erase, high-impedance	80 8 40		2 4	81 RC 985	8.00	8 RC 904	9.50	
MEF1 MEF4	Full-track erase, medium-impedance	3.6	1	1 K	81 RC 987			15.50	



FOUR-TRACK STEREO CONVERSION KITS FOR POPULAR TAPE RECORDERS

ermit playback of 4-track stereo pre-recorded tapes while retaining existing monophonic record/playback facilities.

ODEL WR-35. Record/play head kit for Wollensak and Revere track stereo recorders. Height adjuster. 6 oz.

IODEL WR-40. Erase-record/play assembly for all Wollensak

nd Revere mono recorders. Height adjuster. 6 oz. I RC 957. \$5 Monthly.......

IODEL WR-60. Stereo erase and record/play assembly with ead shifter for 4-track mono recording. Fits Wollensak and evere stereo and mono recorders. 6 oz.

1 RC 009. \$5 Monthly......NET 49.50

10DEL P-6. Conversion record-play head and bracket. For

entron mono and 2-track stereo recorders. 6 oz. 1 RC 010. \$5 Monthly......NET 29.70

MODEL V-6. Record/play head for VM recorders. 6 oz 81 RC 033. \$5 Monthly......NET 25.50

MODEL W-6. Record/play head with shifter and bracket. For Webcor 2800, 2900, and 2000 (except 2020 series). 6 oz. 81 RC 034. \$5 Monthly......NET 36.00

MODEL W-2. Not illus. Playback only conversion record-play head kit. For Webcor Models 210, 2020, 2100, 2600 and 2700 series recorders. Wt., 6 oz.

81 RC 958. \$5 Monthly......NET 27.00

MODEL WR-20. Complete monophonic erase and fine-gap record/play head assembly. For Wollensak and Revere recorders. Provides better high frequency response. With cable, 6 oz

- DEPENDABLE...TOP QUALIT SELECTED TAPE RECORDING ACCESSORIES

60E BIAS OSCILLATOR COIL. For 12AU7 ube circuit. Supplies 115 v. at 60-75 kc to all ecording heads and high-imp, erase heads

sted, above. 6 oz. 60-T2 BIAS OSCILLATOR COIL. For single or ush-pull transistor circuit. Supplies 30-120 v., at 0-100 kc to record and erase heads, above. 6 oz. .. NET 4.50 1 RC 961. AT-100 ALIGNMENT TAPE. Full-track 7½ ips ape for checking azimuth alignment and fre-

juency response of any recorder. Instructions ecorded on tape. 8 oz. 0 R 111. TG-5 TAPE GUIDE POST. Useful to control

neight of tape near tape head. 3 oz. H R 962. TG-8 TAPE GUIDE PLATE. Use with any sidemount style head to control tape position. 11 R 963.....NET 50c L-5 BRACKET. Universal type, for mounting sidemount style heads on any tape recorder. 3 oz 81 R 004.NET 50c

PL-100 PLAYBACK AMPLIFIER. delivers 3 watts to 4, 8, or 16-ohm speaker. Inputs: high-imp. tape head, magnetic or ceramic cartridge phono, tuner. Equalization: variable, NAB/RIAA. Response: 30-15,000 cps. ±2 db Output: P-P triodes and 1-v. cathode follower. For 115 v., 60 cycle AC. 25/x5x83/6. 6 lbs.

81 R 052. \$5 Monthly......NET 46.50

RA-100 RECORDING AMPLIFIER. Use in pairs for recording stereo. Adjustable for use with most tape heads, supplies audio and 65 kc bias to any head listed above, plus 115 v. to high-imp. erase head. VU meter, monitor output. Inputs: mike,







C-7 PP-1



TAPE-KARE

TAPE-KARE

TAPE

TA

Head cle jockey of for clea and lubr ing tape.

TK-2.

HC-2 TAPE HEAD CLEANER

Removes distortion-producing dirt, grime and oxides from heads. Applicator cap. 2 fl. oz. Shpg. wt., 4 oz.

80 R 113. List, \$1.00....NET 69c

TAPE STORAGE CANS

TC-7. Steel can for safe storage of tapes to 7" dia. Shpg. wt., 8 oz.

80 R 207. List, 75c......NET 50c

80 R 208. TC-5. 5" dia. 6 oz......36c

REPLACEMENT PRESSURE PADS

PP-1. Assortment of pre-cut felt pressure pads to fit almost all recorders. Shpg. wt., 2 oz.

80 R 209. List, \$1.00 NET 69c

ROBINS "GIBSON GIRL" TAPE RECORDER ACCESSORY KITS

NUB	CCESS	DRY KI	15					
Stock No.	Type	Description	ription Wt.			Wt. List		N
80 R 121 80 R 120	TK-2 TK-4H	HC-2 head cleaner and JCT-2 cloth. H-4 splicer, ST-500 spl. tape, TC-12	4 oz.	\$2.00	1			
90 B 115	TW AID	tape clips, JCT-2 jockey cloth, TE- 24 book.	1 lb.	3.25	2			
80 R 15	TK-4JR	TS-4J splicer, HC-2 head cleaner, ST-375 splicing tape, TT-1 tape threader, JCT-2 cloth, TC-12 tape clips.			The second secon			
80 R 213	AVK-1	SL-30S labels, TE-24 book Complete kit—every accessory for the	11/2 lb.	10.00	. 6			
		language lab, recording studio, audio-visual dept., professional record-						
MA A VIII A A V		ist. ME-99 eraser, HD-6 demagnetizer, TS-8D splicer, 6 rolls of ST-						
direction of the second		500 spl. tape, TK-5 strobe, TK-6						
TO LUTY THE PROPERTY OF THE PR		cleaner and lubricant, TT-1 tape threader, JCT-2 jockey cloth, 12—	*					
		SL-30S labels, 2—TC-12 tape clips.	14 lbs.	65.00	48			



COUSINO U-310C TAPE VENDOR. Plays messages continually. Fits all 3%-ips recorders. Plays up to 12 min. as supplied; 24 min. with Moebius loop. Reel rotates clockwise. With tape. 1½ lb. NET 9.75

80 R 136. U-310CC. Counterclockwise., NET 9.75



ROBINS-M/M RMM-4 TAPE HEAD MANUAL AND REPLACE-MENT GUIDE



ROBINS-M/M TAPE HEADS

For replacement, conversion to stereo. See RMM-4 book (left) for replacement data. Heads with L, B and Q in Type No. are completely interchangeable for stereo conversion. 9QE3 erase head is 4-track replacement for 5S1 and 5SS1. *No. is no. of tracks; S for stereo, M for monophonic; RP for record/play, E for erase, 6 oz.

****	7 1 2 1			~
Stock No.	Mfr's Type	*Func-	List	NET
80 BC219	2FM20-500	1	\$18.00	13.50
80 RC220		2SRP		22.12
80 RC222		2SRP		22.12
	3FM20-104			11.44
	3FM20-108			0.80
	3FM20-502		-	
81 RC042				22.50
80 RC226		2MRP		9.45
80 RC227		4SRPE		24.00
80 RC228		2SRP 4SRP		20.25
-				21.38
80 RC229		4SRP		21.38
80 RC230		4SRP		21.38
		4SRP		21.38
80 RC232		2ME		7.88
80 RC233	5S1-103	2ME	10.50	7.88
80 RC239	5SS1	2SE	14.00	10.68
80 RC250	7B17	2SRP	25.50	19.31
80 RC251	7H17	2MRP	13.50	10.12
81 RC051		2MRP	13.50	10.12
80 RC252	7L17-108	2MRP	13.50	10.12
80 RC253	7EM12A	2ME	10.50	7.88
80 RC254		4SE		10.12
80 RC255		2SRP	27.00	
80 RC256		2MRP		10.12
80 RC257		2ME	10.50	

ROBINS-M/M 4-TRACK STERI CONVERSION KIT

TELEPHONE-TAPE ACCESSOR

TRB-3 TELE-TAPE BEEPER-INDUCT Makes it easy to comply with the Transistorized signal generator-timery attached ferrite-core induction coil a matically injects 1-kc "beep" into phines and recorder at 15-sec intervals. I tery lasts for more than 3000 aver phone calls. "Easy-on" spring faster to phone. Has 6-ft. cable to phone an recorder. With On-Off switch. Suppless battery (listed below). Size, 5x2x1 Shpg. wt., 1 lb.

80 R 210.....NET 16. 55 J 061. Battery For Above......1

TRP-1 TELE-TAPE INDUCTOR. Pic coil with high-efficiency ferrite core. H gain; high signal-to-noise ratio. "Easymechanical spring fastening. 6-ft. shired cable from telephone ear piece to corder. 6 oz.

80 R 211.....NET 3.

Tape Heads and Recording Accessories TS-8D

-8D "STEREO 4" DELUXE SPLICER. veloped to meet the critical requirents of splicing 4-track tapes without ecting program material on the outside cks. Works equally well for single-track 2-track tapes. Cuts tape diagonally, trims minute indentations on sides of ice to prevent adhesive contact with order parts. Replaceable cutter car-lge; blade-centering adjustment. "Seeu" windows show operating positions. de of almost indestructable "Implex." s integral tape dispenser. With roll of splicing tape, plus complete instruc-ns. Shpg. wt., 1 lb.

R 142. NET 7.77
R 190. RK-8. Replacement cutter cardige and 2 cutting pads for TS-8D. pg. wt., 3 oz.....NET **85c**

TS-45 "STEREO 4" STANDARD SPLICER. Utility version of the TS-8D at left. Has all of its features except "see-thru" windows. Made of metal and plastic. Replaceable cutter cartridge; blade-centering adjustment. Integral tape dispenser. Complete with 100"-roll of 3/" splicing tape and plastic dust cover. 12 oz.

80 R 192..... NET 5.75

TS-4J "STEREO 4" JUNIOR SPLICER. Same as TS-4S above, except without tape dispenser and splicing tape. Uses 3/8" splicing tape. With plastic dust cover. Shpg. wt., 8 oz.

80 R 195......NET 4.39

80 R 200. RK-3. Replacement cutter cartridge, 2 cutting pads for TS-4S and TS-4J. RK-2 REPLACEMENT KIT. For older TS-4A series splicers. Replacement cutter cartridge, 2 cutting pads. 3 oz.

80 R 151.....NET 85c

SP-4 "SEMI-PRO" SPLICER. Small, efficient, non-stereo tape splicer. Tape alignment guide with adhesive back; hand-held cutting unit. Blade cover protects blades. Makes diagonal cuts and "Gibson Girl" trim cuts. 3 oz.

80 R 150.....NET 1.69

H-4 "HOBBYIST" SPLICER. (Not illus.) An excellent low-priced tape splicer. Consists of adhesive-backed plastic tape guide and unique curved razor-type blades. With instructions, 2 oz.

80 R 201.....NET 85c



ROBINS TAPE RECORDING ACCESSORIES

CT-2 "JOCKEY CLOTH." Cleans and pricates tape, while running, with siline. Washable, reusable. 3 oz.

R 152. NET 69c

PLICING TAPE. Mylar, Characteristics

relully Co	MILLIONEU.	100 11	20102	
ock No.	Туре	Width	Oz.	NET
R 202	ST-234	1/4"	1	27¢
R 203	ST-375	3/8"	.1	30¢
R 155	ST-500	1/2"	1	33¢
R 204	ST-750	3/4"	4	40¢

C-12 TAPE CLIPS. Keep tapes from unnding. Fit all reels. Plastic; reusable. 3

per pkg. 12 per pkg. PER PKG. 27c

C-5 "TAPE CLEAN." 5" reel. 6 oz. R 205.....NET 1.73

E-24 EDITING AND SPLICING BOOK-ET, By Haynes. Illus. 6x9". 24 p.

R 131. Postpaid in U.S.A.......24c E-48 TV TAPE RECORDING BOOKLET.

y Goodall. Illus. 48 p.

R 126. Postpaid in U.S.A............69c

E-128 HOW TO GET THE MOST OUT F TAPE RECORDING. By Sheridan.

ustrated, 128 p.

R 123. Postpaid in U.S.A.......69c L-30S REEL LABELS. (Not illus.) 30 ad-

esive labels. 2 oz. R 124......NET 12c

C-2-22 TAPE HEAD LUBRICANT, 2 fl. z. Shpg. wt., 4 oz.

R 206....

RH-2 REEL HOLDERS. Prevent wobbling, 3 oz. per pkg. Pkg. of 2. 80 R 122.....NET 58c

HD-6 HEAD DEMAGNETIZER. (Not illus.) Remove residual magnetism from tape head for optimum signal-to-noise ratio. 4 1/2 / dia. For 110 v., 60-cycle AC. U.L. Approved. 1 lb.

80 R 154..... NET 6.75

HD-3 HEAD DEMAGNETIZER. Efficient, low-cost unit. 31/2x1 1/4" dia. For 110 v., 60cycle AC. 8 oz.

80 R 127.....NET 3.95

ME-99 BULK TAPE ERASER. Erases entire reel at once, with residual noise levels 3-6 db below most erase head levels. For reels to 10", tapes to ½". 5½x6¾x3¾". For 110-120 v., 50-60 cycles AC. U.L. App. Shpg. wt., 81/2 lbs.

80 R 114..... NET 22.27

ME-77 BULK TAPE ERASER. (Not illus.) For reels to 7"; $\frac{1}{2}$ " tape. Erasure 2-4 db below erase head levels. $2\frac{1}{2}$ x6 $\frac{1}{2}$ x3 $\frac{3}{4}$ ". For 110 v., 60 cycle AC, 5 lbs.

TK-5 TAPE STROBE KIT. Lets you check the speed, flutter and wow of 15, 71/2 and 3%-ips recorders. Instructions. For 110 v., 60-cycle AC. 1/2 lb.

80 R 128.....NET 1.35

VU-100 4½" VU METER. 0-100% mod.; -20 to +3 db. Dual-impedance input. Sensitivity, 200 µa; shunts for 1.2 or 12-v. "zero" VU. Mounts in 2¾"-dia. hole; requires 1½" depth. 1 lb.

80 R 125..... NET 14.85



EXACT-REPLACEMENT HEADS

All are Fig. A, except TR16-J and TR2K-J, Fig. B. All are high imped., except 815 and TR5B-J, low imped. TR21C-J, TR16-J are 0.093" upper-track record/playback; others, std. record/playback, erase. TR5B-J has Cinch plug, 14" leads. 3 oz.

Stock No.	Туре	Replaces	NET
81 R 000	815	TR5, TR5D, TR5H	8.82
81 R 002	815H	TR5C, TR5K, TR5L	8.82
	TR21C-J TR5B-J	TR16A, 817 TR5B	8.23
81 RC 008	TR5Z-2-J		5.29





Recording Tapes, Accessorie

"LIVING



111 STANDARD-11/2-MIL ACETATE. High-quality generalpurpose tape. Molded plastic reels, except *aluminum NAB reel (3" center hole). Av. wt., 8 oz.

Stock No.	Type	Footage	Reel	List	1-11, EA.	12-Up,EA.
80 R 543 80 R 547 80 R 548 80 R 549	111-6 111-12	300' 600' 1200' 2400'	4" 5" 7" 10½"	\$1.35 2.25 3.50 10.90	.88 1.47 2.29 7.13	.79 1.32 2.06 6.41

120-12 HIGH-OUTPUT-1 1/2-MIL ACETATE. 7 db higher out-

put. 1200'. Plastic 7" reel. Shpg. wt., 12 oz.

80 R 554, 12-UP, EACH......2.06 1-11, NET EACH......2.29

LOW-PRINT-1 1/2-MIL ACETATE. *NAB reel. 12 oz.

Sto	ck	No.	Туре	Footage	Reel	List	1-11, EA.	12-Up, EA.
			131-12		7"	\$ 4.40	2.88	2.59
80	R	540	131-24R*	2400'	101/2"	12.40	8.10	7.29

150 EXTRA-PLAY-1-MIL MYLAR. Extra-strong "Mylar" base tape. Plastic reels except *NAB aluminum 10 1/2" reel (3" center hole). Av. wt., 12 oz.

Author/Property	-						
80	R 531	150-9	900'	5*	\$3.60	2.35	2.12
80	R 532	150-18	1800'	7"		4.04	
80	R 533	150-36R*	3600'	101/2"	14.40	9.41	8.47

190 EXTRA PLAY-1-MIL ACETATE. Gives 50% more playing time. *NAB aluminum reel (3" center hole). 12 oz.

80	R 550	190-9	900'	. 5"	\$3.50	2 29	2.06
80	R 552	190-18	1800'	7"		3.60	
80	R 553	190-36R*	3600'	101/2"	12.85		

TYPE 200 TENSILIZED TAPE. Super-strength, long-play tape. Polyester 3/4-mil base. Av. shpg. wt., 12 oz.

	200-12 200-24	1200′ 2400′	5" 7"	\$5.45 9.50	3.56 6.20	3.21 5.58

TYPE 175 "TENZAR" TAPE 11/2-MIL.

For applications requiring frequent repeats, fast starts and stops. Withstands roughest usage. Offers 16 times greater tear resistance than ordinary tapes. Non-drying-lasts indefinitely. Stretch resistant. 5" reels are 600', 7" reels are 1200'. Av. wt., 10 oz.

Size		Red	Blue	Green	Yellow	List	NET EACH 1-11 12-Up
5"	80 R 527 80 R 528	80 R 506 80 R 520	80 R 509 80 R 522	80 R 517 80 R 523	80 R 518 80 R 525	\$2.40 3.75	1.601.44



RED SEAL TAPE. Used by recording studios for highest-quality recordings. Consistent oxide thickness provides minimum background noise, lowest distortion. Minimum response: 0-31,000 cps. *Tensilized. Av. wt., 10 oz.

Stock	Mfr's	Lgth.	Mil	Roel	Base	1	NET E	ACH.
No.	Туре	Ft.		Size	Mase	List	1-11	12-Up
	15A-1.5	150	11/2	3"	Acetate	\$.70	.46	.41
80 R 763		.300	11/2	4"	Acetate	1.35	.90	.81
80 R 753		900	1	5"	Acetate	3.50		2.10
80 R 711		600	11/2	5"	Acetate	2.25	1.47	1.32
80 R 713	10A-18	1800	1	7"	Acetate	5.50		3.30
	15A-12	1200	11/2	7"	Acetate	3.50	2.29	2.06
	10M-2.25	225	1	3"	Mylar	1.00	.66	.59
80 R 737	5TM-3*	300	1/2	3"	Mylar	1.60	1.05	.94
80 R 765	5TM-6*	600	1/2	4"	Mylar	3.05	2.03	1.83
80 R 714	15M-6	600	11/2	5"	Mylar	2.65	1.73	1.56
80 R 716	10M-9	900	1	5"	Mylar	3.60	2.35	2.12
	5M-12	1200	1/2	5"	Mylar	4.55	2.97	2.68
80 R 739	5TM-12*	1200	1/2	5"	Mylar	4.75	3.11	2.79
80 R 715	15M-12	1200	11/2	7"	Mylar	4.25	2.77	2.50
	10M-18	1800	1	7"	Mylar	6.20	4.05	3.65
	5M-24	2400	1/2	7" :	Mylar	7.85	5.14	4.61
80 R 750	5TM-24*	2400	1/2	7"	Mylar	8.75	5.71	5.14

264-C1 SNAP-LOAD TAPE CARTRIDGE. For cartridge tape players. Contains 560-ft. of "Red Seal" tape. "Mylar" base for strength, 1 mil tape thickness, 9 oz.

"LIVING LETTERS" 3" TAPE. With mailable carton. 2

Stock No.	Mfr's Type	Base	Foot-	List	NET I-II	EAC 12
80 R 542	111-1.5	Acetate	150'	\$.70	.46	S a
80 R 502	150-2.25	"Mylar"	225'	1.00	.66	
80 R 530	200-3	Tensilized	300'	1.60	1.05	

EMPTY PLASTIC REELS. With index box, 4 oz.

Stock No.	Reel Size	List	I-II, EACH	12-Up, E
80 R 559	3"	25c	17¢	15€
80 R 563	4"	55c	37¢	33¢
80 R 558	5"	65c	44¢	39¢
80 R 556	7"	75c	50¢	45¢

ONE-REEL MAILING BOXES. 3 oz.

80 R 562 80 R 561 80 R 560	5" 7" 10½"	15c 20c 30c	10¢ 13¢ 20¢	9¢ 12¢

TYPE 24 LEADER & TIMING TAPE. Dispenser pkg. 3

Circ			Tape Cold	or .			NET	E#
3126	White	Red	Blue	Green	Yellow	List	1-11	12
100'	80 R569	80 R565	80 R566	80 B567	80 8568	\$ 90	50	-
1000′	80 R576	80 R571	80 R573	80 R574	80 R575	4.50	2.94	2
		_						

80 R 596. 8000 Quick-Load Cartridge. Contains 560 feet. H

80 R 557. 41-1/2S Splicing Tape. Non-run adhesive on one s 150". 1/2" wide; handy dispenser. 3 oz......NET

80 R 577 51-7/32 S Aluminized Sensing Tape. For recorders v

TYPE 282 "SANDWICH" TAPE 11/2-MIL MYLAR

Provides superb fidelity. Features protective, micro-thin pla shield over oxide coating. Eliminates rub-off, wears up to times longer, reduces tape recorder maintainance and h wear. Av. shpg. wt., 10 oz.

	Reel Color						NET E	A
Size	Clear	Red	Blue	Green	Yellow	List	1-11	12
5" 8	80 R578 80 R5 83	80 R579	80 R580	80 R581 80 R589	80 R582	\$3.19	2.02	1

VIBRANT SERIES TAPE. For full-frequency recordings. Rigid production control assures consistency in oxide thickness—reduces distortion and background noise. Response: 0-18,000 cps. *Tensilized. 10 oz.



Stock No.	Mfr's Type	Lgth., Ft.	Mil	Reel Size	Base	List	1-23	EA 24
80 R 754 80 R 756 80 R 755 80 R 757 80 R 758 80 R 761 80 R 760 80 R 762	703C1 702C1 704C1 707C1 709C1* 708C1	600 900 1200 1800 900 1200 1800 2400	1 ½ 1 1½ 1 ½ 1 1½ 1 ½ 1 1½ 1 ½ 1 ½	5" 5" 7" 7" 5" 5" 7"	Acetate Acetate Acetate Acetate Mylar Mylar Mylar Mylar	1.75 2.50 2.95 4.25 2.85 4.50 4.95 7.95	1.13 1.62 1.91 2.74 1.86 2.91 3.23	1. 2. 2. 4.

RCA TAPE REELS AND ACCESSORIES

80 R 708. 80 R 709.	5" Empty Reel. 7" Empty Reel.	With box. 4 oz	EA.
		01	

Tape Chest. Holds 5-5" reels. Simula 80 R 595. 517-C1 Tape Shelf. Holds 12-7" reels. Simula

80 R 592. 516-C1 Head Demagnetizer. For 110-120 v., 50-60 cy AC. 5 oz. List, \$4.85..... NET 2



ANDARD—1 ½-MIL ACETATE. Plastic reels except *NAB minum (3" center opening). 8 oz.

ck No.	Type	footage	Reel	List	EACH	Lot Price
R 648	151	150'	3"	\$0.70	.46	.41†
R 647	351	300'	4"	1.35	.88	.79†
R 637	651	600′	5″	2.25	1.47	1.32†
R 627	1251	1200′	7"	3.50	2.29	2.06†
R 628	2551R*	2500′	101/2"	10.90	7.12	6.411

ET EACH, 10 or more. ‡NET EACH, 5 or more.

DNGER-RECORDING"—1-MIL ACETATE. 50% more playing e. Plastic reels except *NAB alum. (3" ctr. hole). 8 oz.

R 611	941	900'	5"	\$3.50	2,29	2.06†
R 612	1841	1800′	7"	5.50	3.60	3.23†
R 617	3641R*	3600′	101/2"	12.85	8.40	7.56‡

ET EACH, 10 or more. NET EACH, 5 or more.

ONGER-RECORDING"—1-MIL "MYLAR." 50% more recordtime. On plastic reels except *NAB aluminum reel (3" hter hole). Self-mailer carton, 12 oz.

R 700	2618	225'	3"	\$1.00	.66	59†
R 701	961	900'	5"	3.60	2.35	2.12
R 702	1861	1800′	-7"	6.20	4.05	3.65
R 703	3661R*	3600'	101/2"	14.40	9.41	8.47‡

ET EACH, 10 or more. INET EACH, 5 or more.

>LORED BASE—1 1/2-MIL ACETATE. Same high quality as state base (above). Plastic reels. Av. wt., 8 oz.

No:	Green	Stock No.	Blue	Footage	Reel	EACH	10-Up, EA.
R 650	651G	96 R 738	651B	600′	5"	1.47	1.32
R 652	1251G	96 R 739	1251B	1200′	7"	2.29	2.06

W-PRINT. *1 1/2-mil acetate. †1 1/2-mil "Mylar." 12 oz.

ock No.	Туре	Footage	Reel	1-4, EA.	5-9, EA.	10-UP,EA.
	1251-M*	1200′	.7"	2.80	2.80	2.53
	2551R-M*		101/2"	8.16	7.35	7.35
	1271 M† 2571R-M†	1200' 2500'	101/3"	3.33 8.82	3.33 8.82	3.00 7.94

TAPE RECORDER REELS. 10 1/2". With box. *3" center. Wt. 8 oz.

Stock No.	Туре	Description	List	1-4, EA.	5-Up, EA.
		NAB aluminum* Fiberglas, EIA adapterless 5/6" center		2.62	2.35

COLORED EMPTY PLASTIC REELS. In popular colors. Supplied in boxes. Av. wt., 4 oz.

Reel	Stock No.						NET	EACH
Size	Clear	Red	Yellow	Green	Blue	List	1-9	10-Up
5"	80 R 695	80 R 655	80 R 663	80 R 669	80 R 67 I	60c	39¢	35¢
7"	80 R 685	80 R 657	80 R 667	80 R 670	80 R 674	75c	49¢	44¢

ONE-REEL BOXES. *Self-mailer, Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Reel Size	List	1-9, EACH	10-Up, EACH
80 R 602	3MB*	3"	15c	10¢	9¢
80 R 603	5B	5"	20c	13¢	12¢
80 R 605	7B	7"	20c	≈ 13¢	12¢

TEMPERED "MYLAR". Has twice the strength of conventional ½-mil tape. Plastic reel. Av. shpg. wt., 8 oz.

Stock No.	Туре	Reel	Length	List	1-9, EA.	10-Up,EA.
80 R 619	1231T	. 5"	1200′	\$5.45	3.56	3.20
80 R 622	2431T	7"	2400′	9.50	6.20	5.59

TYPE 400 HEAD DEMAGNETIZER. Demagnetizes tape recorder heads. Reduces noise and distortion. Consists of an AC magnet with pole pieces shaped to fit contour of recording head. Easy to use. Case dia., 13/". For 110-120 v., 60 cycle AC. 1 lb.





lock No.	Туре	- Tape	Reels	Lbs.	List	EACH
R 804	SC-7	"Standard"	5-1200'	8		11.45
	LC-7	"Lifetime"	51200'	8		13.87
R 805	PLC-7	"Plus-50"	51800'	9	29.00	18.96
R 807	7STC	Tape Che	est Only	4	1.50	98

OUNDCRAFT "MAGNA-SEE." See the sound track on your corded tapes with this unique kit. Tape is run through a colidal iron suspension, which deposits fine iron particles on the agnetic track. Deposit pattern indicates head alignment, and ear. Kit includes ½-pt. can of iron suspension, jewelers' "loop," astic tray, a roll of transparent tape with 4 slides, instructions. hpg. wt., 1 ½ lbs.

R 139. NET 7.95

RON SUSPENSION. ½-pt. can. For above. ¾ lb. NET 3.00

"LIFETIME"—1½-MIL "MYLAR." Micropolished. On plastic reels. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Footage	Reel Size	1-9, EA.	10-	Up, EA.
80 R 815	L-6	600′	5"	1.73		1.56
80 R 820	L-12	1200′	7"	2.77	l'	2.50
STANDAR	D-11/2-MIL	ACETA	TE. Micro	polished.	On	plastic

reels. Av. shpg. wt., 8 oz.

80 R 800	S-1	150'	3" "	.41	.38
80 R 801	S-3	300′	4"	.81	.73
80 R 802	S-6	600′	5"	1.37	1.23
80 R 803	S-12	1200′	7"	2.29	2.06
WOLLIG FOR	4 8411	HALVE A DIT	500/ mora	footage 8 oz	

"PLUS-50"—1-MIL "MYLAR". 50% more footage, 8 oz.

80 R 823	PL-2	225′	3"	.62	.56
80 R 821	PL-9	900′	5"	2.22	2.00
80 R 822	PL-18	1800′	7"	3.79	3.41



QUICKLY, EASILY WITH Superior Quality Professiona

MAKE FAST, RELIABLE TESTS . . . SAVE CALL BACKS . . . SELL MORE TUBES . . . ASSURE CUSTOMER SATISFACTION . . .



MODEL 700 MAKES ALL THESE TESTS

New and Older Tubes Including: Nuvistors, New 10-Pin Tubes, 12-Pin Compactrons, European Tubes: Hi-fi, Voltage Regulators, and Industrial Types

MODEL 700 "DYNA-QUIK" TUBE TESTER

A professional dynamic mutual conductance tube tester today and tomorrow. Obsolescence-proof circuit featur multiple-socket section—just plug tube in proper soci and it is ready to check-plus simplified switching secti for checking new tube types. In addition to testing rac and TV types, unit checks voltage regulators, thyratror and radio hybrid types, European hi-fi tubes, and industr types. Includes sockets for nuvistors, 10-pin tubes at 12-pin Compactrons. Has provision for new sockets. Chec each section of multi-section tubes separately. Tests f all shorts, grid emission, leakage and gas. Grid emission test is adjustable, with sensitivity to over 100 megohm Makes quick "life" test. Large 4½" plastic meter he easy-to-read "Good-Bad" scale. With complete reference chart in cover. In leatherette-covered case. 16 1/6 x 15 3/4 x 5 1/4 For 105-125 v., 50-60 cycle AC. Wt., 16 lbs.

87 FX 385. \$9 Monthly.....NET 166.5



Pick up the Model 600 Tube Tester— it's perfect for outside calls. Compact and lightweight-truly portable. Offers fine quality per-formance at low cost.



NEW! 3-in-1 uniquely designed compact tester. I one instrumer you get these quality testers

1. Tube Tester

- 2. VOM
- 3. Rejuvenator

MODEL 600 "DYNA-QUIK" TUBE TESTER

A low-cost, high-quality emission type tube tester. Checks all TV and Radio tubes, plus nuvistors, 10-pin tubes, 12-pin compactrons, voltage regulators, thyratrons, auto radio hybrid tubes, European hi-fi types, and most industrial tubes. Determines tube capabilities under simulated load conditions. Rejects only tubes that are definitely bad. Checks each section of multi-section tubes separately. Features adjustable grid emission test, sensitive to over 100 megohms. Tests for shorts, leakage gas. Has phosphor-bronze socket contacts. In leatherette. 81/2x11x41/2. For 105-125 v., 50-60 cycle AC. 53/4 lbs.

NEW MODEL 625 DYNA-TESTER

An extremely versatile instrument combining a tube tester, VC and CRT in one compact unit. Tube tester section's coverage the same as the Model 600 (at left). Checks for shorts, gr emission leakage and gas. Adjustable grid emission check over 100 megohms. VOM section offers 7 ranges: 3 DC ranges 0-10, 100, 1000 v.; 3 AC ranges—0-10, 100, 1000 v.; 1 ohm range 3K center scale. CRT section tests and rejuvenates black-an whites (in set) with heaters up to 50 v. Checks for leakage, short and emission. Removes shorts and leakage. Case, 11 3/x15x41/

DELUXE CATHODE REJUVENATOR TESTER

MODEL 440. Quickly checks and rejuvenates color and black-an white CRT's while still in set. Checks and corrects each gun color tube separately. Detects opens, shorts, emission, cut-c voltage. Repairs shorts, opens; restores weak emission. Tes all CRT's with 1-12 v. filaments including 2.34, 2.68 and 8.4tubes and 110° types. Portable leatherette-covered case. 43/4xi. For 105-125 v., 60 cycle AC. Wt., 10 lbs. 87 FX 218. \$5 Monthly.....NET 73.4

DYNA-SWEEP CIRCUIT ANALYZER

MODEL 1070. Expertly designed for trouble-shooting horizonte vertical and sync problems in TV sets. Injects horizontal ar vertical sync pulses, grid and plate drive signals directly in output trnasformers. Helps isolate trouble to defective par Checks flyback transformer and yokes for shorted turns, leakag opens continuity, etc. Also provides B+ boost indicator, hig voltage indicator, and vertical yoke test signal. 91/2x7x5". Fi 110-120 volts, 50-60 cycle AC. 81/2 lbs.

BUDGET-PRICED CRT REJUVENATOR

MODEL 420. Checks and rejuvenates black-and-white CRT's set. Checks for leakage, shorts and emission. Removes shorts an leakage. Tests CRT's at 2, 6 and 8 v., including 110° tubes. Con pact, two-tone plastic and metal case, 85/x63/x33/6". For 110-12



200 ALLIED

Express Shipment Recommended for Test Instrument

Test Equipment

SOLVES DIFFICULT PROBLEMS and DOES AWAY WITH TRIAL AND ERROR



EASILY CHECK ALL CIRCUITS . . . PINPOINT ANY TV TROUBLI WITHIN MINUTES . . . CUT SERVICING TIME IN HALF . . .

MODEL 1076 COMBINATION TELEVISION ANALYST

A versatile all-in-one instrument combining a miniature TV transmitter with the famous "Dyna-Sweep" circuit analyzer, to give a complete television analyst. Saves endless hours of labor and assures proper correction. Injects RF, IF, video or audio signal directly into any stage of black-and-white or color TV sets to isolate and pinpoint trouble. "Dyna-Sweep" section injects horizontal and vertical sync pulses, plus grid and plate drive signals for checking sync and sweep stages. Also offers: switch-type tuner for instant and accurate channel selection from 2-13; negative bias supply for sync overload and AGC troubles; AGC keying pulse for troubleshooting gated AGC systems; high-level test signal for modulating TV picture tubes directly.

In addition to generating black and white patterns, the 1076 Analyst generates white dot, crosshatch and color bar patterns for color convergence adjustments. Generates full color rainbow display and color bar pattern to test color sync circuits, check range of hue control and align color demodulators. Size, 10 1/4x 17x10". For 110-120 volts, 60 cycle AC. Shpg. wt., 29 lbs.



In One Unit: Signal Generator, Power Supply, Milliammeter, VTVM, Battery Tester, Ohmmeter, plus inand-Out-of-Circuit Transistor Tester



NEW

A Color Analyst Designed to: Simplify Jobs **Cut Labor Time** Pinpoint Trouble Correct Trouble Save Call Backs



MODEL 960 TRANSISTOR RADIO ANALYST

A complete transistor radio analyst, combining all the instruments needed for a quick, thorough check. Injects RF, IF signals and audio tones directly into all circuits stage-by-stage to isolate and pinpoint exact trouble within minutes. Unique "Dyna-Trace" single-point probe needs only one contact to transistor, speeding in-circuit testing. Meter has "Good-Bad" scale for leakage and beta. Also determines whether transistor is NPN or PNP. Power supply provides from 1 to 12 volts in 1 ½ volt steps, and has meter with 2 current ranges—150 ma and 15 ma. Signal generator tunes from 250 kc to 2 mc in two bands. VTVM has two ranges—1.5 and 15 volts. Ohmmeter reads up to 1 megohm and tests front-to-back ratio of diodes. In handsome, sturdy metal case, 121/8x73/4x41/6". Complete with valuable Japanese-to-American transistor cross-reference chart. For 110-120 volts, 50-

DELUXE MODEL 360 "V-O-MATIC" VOM

An outstanding VOM featuring an individual, full-size scale for each range. Range switch automatically sets correct direct-reading scale. Sensitivity: 20,000 ohms/volt DC; 5000 ohms/volt AC. Ranges: AC and DC volts, 0-3-15-60-300-1000-6000; DC µa, 0-100; DC ma, 0-5-100-500; DC amps, 0-10; resistance, 0-1000-10,000 ohms, 0-1-100 megs. Accuracy: 3% DC, 5% AC. Meter protected against overload and burn-out. Size, 61/x81/x41/". With batteries, leads, extra scales for audio power, db, peak-topeak volts, and capacity. Shpg. wt., 41/2 lbs.

MODEL 375 AUTOMATIC VTVM

A deluxe VTVM featuring direct, error-free readings without multiplying. Range switch automatically selects correct, fullsize scale. Ranges: DC-AC rms and AC p-p v., 0-1.5-5-15-50-150-500-1500; DC ma. 0-5-50-500; resistance, 0-500-5000-500,000 ohms, 0-5-1000 megs. Input, 11 megs on all DC ranges, Accuracy, ±3% of full scale AC and DC. Features: 100 µa meter movements, 1% multiplier resistors, anti-parallax mirrored scale.

MODEL 850 COLOR TV ANALYST

An advance-design Analyst making color TV installation and servicing simple and accurate. Provides crystal controlled sync system. Gives excellent line and dot stability for static and dynamic convergence and for linearity adjustments. Generates white dot, crosshatch, vertical lines, horizontal lines, burst pulse and individual colors. Tuned, switch-selected RF signals are available for channels 3, 4 and 5. Exclusive gun killer, with front panel switch control, makes it easy to disable any combination of 3 color guns. Sweep jack provides a 15,750 cycle sawtooth signal for simple demodulator alignment. Has video output jack and level control for positive and negative polarity; power offstandby-on switch. Deconverging assembly eliminates need for continued static convergence adjustments during set-up. Size,



FICKOR Test Equipment Famous for Superior

NEW MODEL 6000A TUBE TESTER

Checks transistors (both 5 and 7-pin), diodes, Compactrons, Novars, 5 and 7-pin Nuvistors and 10-pin miniatures, as well as octals, loctals and 7 and 9-pin miniatures. Has Hickok-developed Gm circuit. Provides a sensitive inter-element leakage and shorts test, as well as a grid current test. Constant indication of line voltage. Immediate filament continuity test. Replaceable socket plate for obsolescence protection. Roll chart. Portable. 71/2x163/4x 11 3/4". For 105-125 v., 50-70 cycles AC. Shpg. wt., 121 lbs. 65 FU 006. NET 239.50

MODEL 800 TUBE TESTER

Hickok-developed Gm circuit. Inter-element leakage, filament continuity and grid-current tests. Checks 4, 5, 6, 7-pin, octal, loctal, 7 and 9-pin miniature tubes. Tests transistors and diodes. Roll chart. Portable. 7½x16½x11¾". For 105-125 v., 50-70 cycles AC. 21 lbs.

87 FU 187. NET 179.30 65 F 114. CA-4. Adapter for testing Compactrons, Novars, 5 and 7-pin Nuvistors and 10-pin types. Use with any tester having an octal socket. 4 lbs. NET 49.50
84 F 184. CRT Adapter. For all current Hickock manual testers. 1 lb... NET 15.75

NEW MODEL 539C TUBE TESTER

Industrial and laboratory portable. Hickokdeveloped \hat{G}_m test circuit. 6 micromho ranges to 60,000 µmhos; 4 AC signal voltages. Measures inter-element leakage to 50 megohms. Checks 4, 5, 6, 7-pin, octal, loctal, 7 and 9-pin miniature, 7-pin in line and 8-pin round sub-miniature, and acorn tubes, as well as all Compactrons, Nuvistors, and 10-pin types. Tests VR tubes, low-power thyratrons, "4-digit" types. Provision for plate and heater current measurements. 71/2x163/4x183/6". For 105-125 v., 50-400 cycles AC. 39 lbs. 65 FU 005. NET 485.00



123A "CARDMATIC" TUBE TESTER

Card-programs complete "fringe" tests, Gm, saturation and cut-off tests. Portable. With cards. 9 1/2 x 16 1/2 x 19 1/2". For 105-125 v., 50-60 cycles AC. 57 lbs.

65 FZ 115. NET 585.00 87 FU 186. 121 "Cardmatic" Tube Tester. 8x193/4x131/4". For 105-125 v., 60 cycles AC

MODEL 890 TRANSISTOR TESTER

Measures AC Beta to ±5% in or out of circuit. Measures input res., base-em. circuit impedance and lo in circuit; input res., lo and lobo out of circuit. Less batteries, below. 61/2x103/4x9". 8 lbs.

55 J 017. Type 1. Use 4. 2 oz. 13c

NEW MODEL 752A TUBE TESTER

Tests 5 and 7-pin Nuvistors, Novars, Compactrons, 10-pin types, as well as 4, 5, 6, 7-pin, octal, loctal, 7 and 9-pin miniature, 7-pin in-line and 8-pin round sub-miniature, VR tubes and acorn tubes. 71/2x183/6x



209B

MODEL 455A BURNOUT-PROOF VOM

Special overload protection-can't burn out. 20,000 ohms/v., AC and DC. 27 ranges. 3x5 1/8x8 1/2". Less battery, use one each Burgess U-20 and #2 flashlight. Shpg. wt., 6 lbs.

NEW MODEL 470A 7" ELECTRONIC UNI-SCALE VOM

Lightweight, portable. Single unit probe for AC, DC, Ohms. 6%x 7½x4½". For 105-125 v., 50-60 cycles AC. 6 lbs. **65 F 118.**

209B VACUUM-TUBE VOM AND CAPACITANCE METER

Versatile new instrument, featuring 100-mv sensitivity and 1% stability. Ranges: +DC, -DC and AC volts-0-0.1-0.3-1-3-10-30-100-300-1000 (AC, 10 cps-100 kc); ohms—X1, X10, X1000, X1000, X10,000, X1 Meg (design center 10); capacitance—X10 mfd, X1 mfd, X0.1 mfd, X0.01mfd, X0.001 mfd, X100 mmfd, X10 mmfd. Has DC zero center set. Measures RF volts 0-1-3-10-30 with RF probe (not supplied; see probe listings elsewhere in catalog). 0.1 VDC reference for ohmmeter measurements. 131/x161/x7". For 117 v., 60-cycle AC. Shpg. wt., 26 lbs. 65 FU 119. NET 249.00

202 ALLIED



NEW MODEL 288XA AM-FM SWEEP AND MARKER GENERATOR

Crystal-controlled, high-output AM-FM sweep and marker generator-a complete alignment instrument. 8 bands from 35 kc to 160 mc FM, 110 kc to 110 mc AM. Has built-in db meter. Provides for internal or external amplitude or frequency modula-tion of RF output. AF output, 20-15,000 cps variable or 400 cps fixed. Choice of 100 kc or 1000 kc crystal output. With crystals, cable assembly. 13x16x7". For 110 v., 50-70 cycles AC. 33 lbs.

65 FU 120......NET 315.00



MODEL 660 COLOR-BAR/DOT/ CROSSHATCH GENERATOR

Lightweight, portable unit for color-TV servicing. All frequencies generated are crystal-controlled and locked together for maximum stability. Color display pattern sequence: orange, red, magenta, blue, cyan, green. White dot and crosshatch size: as small as 2 lines in both horiz. and vert. planes; approximately 300 dots total. 20 vert. and 15 horiz. crosshatch white lines, less those in blanking. Circuit completely compatible with new-design receivers. With crystals. $5\frac{1}{2}$ x10 $\frac{1}{2}$ x10 $\frac{1}{2}$ ". For 105-125 v., 50-60 cycles AC. 21 lbs.

65 FU 121.....NET 245.00

MODEL 615 SWEEP AND MARKER ALIGNMENT GENERATOR

Permits complete TV RF and IF alignment; provides harmonic output on UHF. Has an all-electronic sweep-no moving parts. Unwanted amplitude modulation is less than 0.1 db/mc. Marker frequency is 0.5% or better at any dial setting. 13 1/4×16 1/4×8". For 110-120 v., 60 cycle AC. 39 lbs. 65 FU 122.

65 FU 122. NET 359.50 65 F 123. Type 75 Termination Pad. Match from 75-90 ohms unbalanced to 300 ohms balanced. Shpg. wt., 2 lbs.... NET 12.95

850P TRANSISTOR ANALYZER

Ideal for use as a "breadboard" in circuit design. Tests transistors under actual operating conditions in any of 6 circuit configurations: common emitter, collector, or base, NPN or PNP. Checks alpha, beta, input and output res., loo, looo, lobo and power gain. Panel controls set circuit conditions. 13 1/2 x 16 1/2 x 8". With leads, less batteries (below), 20 lbs.

NET 169.50 65 FU 124. . . . 55 J 017. Type 1 Battery. Use 10. 2 oz.13c

MODEL 675A OSCILLOSCOPE

Wide-band, high-sensitivity 5" oscilloscope. Smooth response from DC to 4.5 mc (within 3 db). Assures undistorted reproduction of 3.58-mc color TV signals. 20 rms mv/inch vertical sensitivity. With lowcapacity probe. 13x10x16". For 105-125 v., 50-400 cycles. 45 lbs.

...NET 299.90 84 FU 634. NET 299.90 65 F 126. 35 Demod. Probe. 8 oz.7.75

NEW CR33 COLOR CRT TESTER

Checks beam current capabilities of all 3 guns of color picture tube. Makes color purity tests of each gun individually. Adapter socket fits all color kinescopes. 6½x3½x2½". For 105-125 v., 50-70 cycles AC. Shpg. wt., 3 lbs.

65 F 127. NET 39.95

MODEL 656XC COLOR-BAR/DOT/ CROSSHATCH GENERATOR

Produces the standard fully-saturated NTSC color bar pattern. Design based on NTSC standards—assures obsolescence protection. Color generation: 3 primaries, 3 complementaries, plus black and white; I,Q,R-Y,B-Y,G-Y,-G-Y. Color phase is accurately set with precision delay lines and referenced to crystal oscillator. Also produces a choice of: crosshatch, vertical lines only, horizontal lines only and smallsize white dots, locked to assure stability. Sound carrier provided for setting TV local oscillator. 7½x16¾x18¾". For 105-125 v., 60-cycle AC. 48 lbs.

87 FU 176...... NET 549.50



MODEL 870 TRANSISTOR TESTER

Measures both AC and DC beta, to accuracies well within 5%. Checks collector sat. voltage. Provides low-voltage, hightesting. Roll chart. 71/8x149/16x113/4". For 115 v., 60 cycles AC. 22 lbs. 87 FU 199. NET 355.00



810 TRANSISTOR-RADIO TESTER

Combination AM signal generator and signal tracer-RF, IF and audio, and transistor tester. High gain. 9x11 1/4x7". For 105-125 v., 50-70 cycles AC. 16 lbs

87 FU 188. NET 138.50











WR-64A COLOR-BAR/DOT CROSSHATCH GENERATOR

Portable and easy to use, connects to antenna terminals of any color TV re-ceiver. Produces 10 bars of different colors simultaneously. Provides stable fine-line cross-hatch and dot patterns. Fixed number of bars and dots facilitate over-scan and linearity adjustment in both color and black-and-white sets.

Sound carrier permits accurate adjustment of receiver. Chroma control helps check color sync lock and color AFC alignment. Color sub-carrier, horizontal sync-pulse and "bar" frequencies are all crystal controlled. With shielded output cable. 10x13 ½x7 ½". For 105-125 v., 50-60 cycle AC. Wt., 13 lbs.

87 FU 324. \$10 Monthly.....NET 189.50

WR-50AK PORTABLE RF SIGNAL GENERATOR KIT

Ideal for alignment and signal-tracing applications in the repair of AM and FN radios and TV receivers. Provides con tinuously tunable output from 85 kc to 56 mc, all on fundamentals. Dial calibration is accurate within 1%. Incorporates built in 400-cycle audio oscillator for internal o external modulation.

Cathode-follower output isolates oscillato -maintains waveform, voltage regulation and stability. Attenuator control of Ri output level has range of approximately 2000 to 1. Provides at least 0.05 and 0.01 v rms at high and low connectors, respec tively. Shielded outputs. 71/x101/x6". For 105-125 v., 50-60 cycle AC. 10 lbs.

65 F 011. \$5 Monthly.....NET 37.95

WA-44C SINE/SQUARE WAVE AUDIO GENERATOR

WR-70A

WR-99A

Provides 20-200,000 cps output in 4 ranges. Switch selects sine or square-wave output. Square waves have less than 5% tilt, better than 0.15 usec. rise time. Output: 8 v. rms minimum with rated load; ±1.5 db, 30-100,000 cps. Distortion; less than 1/2%. Has separate 60 cps output, 10-to-1 step attenuator, variable output control. 7x1011/6x61/8". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

87 FX 071. \$5 Monthly......NET 98.50

WR-69 TV-FM ALIGNMENT SWEEP GENERATOR

Switch selects VHF TV channels, FM, TV video, chrominance frequencies and IF. VHF output on fundamentals. Sweep width variable 50 kc-20 mc on IF/video and FM, 50 kc-12 mc on TV. IF/video output frequency tunable from 50 kc to 5 mc—flat within 0.1 db per sweep mc. Blanking circuit. 10x13¾x7¼″. For 105-125 50-60 cycle AC. 17 lbs.

WR-99A CALIBRATED MARKER-GENERATOR

Crystal calibrated, for aligning FM and TV receivers, etc Covers 19-260 mc. Ideal for color TV servicing. Crystal calibrator provides 240 check points at 1 or 10 mc intervals. Modulation frequencies: 1, 10, 4.5 mc, 600 cps. Sound and picture carrier markers available simultaneously. Output: 0.1 v. min. rms Double shielded oscillator. 10x13 3/x7 1/4". For 105-120 v., 50-60 cycle AC. Shpg. wt., 18 lbs. NET **242.50**

WR-70A RF-IF-VF MARKER-ADDER

For RF, IF, and video sweep-alignment of TV sets. Four markers: positive peak, negative peak, positive and negative peaks (wide band), and positive and negative peaks (narrow band). Use with marker and sweep generators. 0-60 db attenuation of IF sweep signal. With 4 cables. Size, 71/2x101/2x61/4". For 105-125 v., 50-60



11A1015 COLOR TEST JIG

Simplifies servicing of color TV receivers. Utilizes RCA type 21CYP22A tri-color kinescope. Eliminates necessity or removing picture tube from cabinet and of reconverging tube when chassis is returned. Control panel provides dynamic and static convergence. Metal cabinet has safety glass and kine mask. With instructions. Wt., 90 lbs. 87 FU 047. \$7 Monthly.....NET 135.00

COLOR AND BLACK AND WHITE TV SERVICING ACCESSORIES

WG-295C VIDEO MULTIMARKER, Provides 7 simultaneous absorption-type markers at preset frequencies. 1 lb.

87 F 054. NET 32.50

WG-304B RF MODULATOR. Permits marker generator modulation by sweep generator, video. Wt., 1 lb.

WG-307BK TV BIAS SUPPLY. 3 outputs, 0 to -15 v., fixed -100 v, 11/2 lbs

65 F 093. NET 11.95

WD-25A TV ISOTAP. Adjustable isolation transformer. 15 lbs.

62 G 516. NET 22.00

205-W1 DEGAUSSING COIL. Demagnetizes kinescope and chassis. 4½ lbs. 65 F 094. NET 10.53

220-X1 KINESCOPE SOCKET EXTEN-SION CABLE. Fits any kine tube. 1/2 lb. NET 7.40 221X1 CONVERGENCE MAGNET EX-TENSION CABLE. Shpg. wt., ½ lb. 87 F 542. NET 3.50

226-X1 GRID SHUNT SWITCH AND CABLE. For convergence and matrix adjustments. ½ lb.

228-X1 DEFLECTION YOKE EXTENSION

CABLE. Shpg. wt., 2 oz.

87 F 544.....NET 5.25 13A100 HIGH VOLTAGE EXTENSION CABLE. Extends high voltage lead to

RCA Color Test Jig. 3 oz. 87 F 046. NET 2.50

ABOUT RCA COLOR TV SERVICING EQUIPMENT

TV servicemen! Color TV is here now-and here to stay. With it comes the need for top-quality color TV servicing equipment. Choose RCA-world-renowned for accuracy and fine craftsmanship. On this page you'll find the latest in color TV servicing equipment designed to make your job easier and more profitable.



World-Famous for Quality

WV-38A VOLT-OHMETER

Features 1 volt and 250 mv ranges for transistor servicing. Has large 5 1/4" meter. Offers 20,000 ohms-per-volt input resistance on DC ranges: 0-.25-1-2.5-10-50-250-1000-5000 v. AC accuracy: $\pm 5\%$. Reads 0-20 megs in 3 ranges. DC current: 0-50 μ amps, 0-1-10-100-500 ma, 0-10 amps. Reads db from -20 to +50 in 4 ranges, DC blocking capacitor for AC

WV-120A POWER LINE MONITOR

Convenient to use-just plug line cord into AC outlet. Reveals fluctuations and "bounces" in line voltage. Ideal for labs, factories-wherever accurate knowledge of line voltage is required. May be hung on the wall or placed on work-bench Range: 110-140 v. Accuracy: ±2% at 120 v. Scale has large, easy-to-read markings. 315/16×5×31/16". Wt., 1 1/2 lbs.

87 F 048..... NET 14.95

WV-95AK DEMONSTRATOR KIT

Actual operating instrument provides effective method for teaching principles of multi-range volt-ohm-milliameters. 5 DC ranges (20,000 ohms/volt); 5 AC ranges (5,000 ohms/volt), 2.5-1000 v. 3 ohms ranges: 12, 1200, 120,000 ohms center scale, 5 DC current ranges; 10 ma 10 amps. Panel, 24x12". Easy to assemble. Detailed instructions. 10 lbs.

65 FU 087. \$5 Monthly..... NET 37.95



WV-98C SENIOR VOLTOHMYST

Top-quality VTVM. Incorporates easy-toread zero-center scale, 200 µamp meter movement; 1% precision multipliers; diecast aluminum case. 61/2" meter has ±3% accuracy. In 7 ranges per function —reads AC v. rms and DC to 1000 meg-ohms. AC input impedance of 0.83 megohm and 70 mmf to 1.5 megohms and 60 mmf; 11-megohm DC input resistance. With AC-DC-Ohms probe. For 105-125 v., 50-60 cycle AC. Wt., 7 lbs.

65 F 134. \$5 Monthly.....NET 79.50 WV-98C(K) KIT. Above, in kit form.

65 F 133. \$5 Monthly......NET 57.95



NEW WV-76A AC VTVM

Measures AC volts from 10 millivolts to 100 v. rms in 9 overlapping ranges; 9 db ranges: -40 db to +40 db. Rugged 200-microamp meter. Accuracy: ±4% of full scale deflection. Response of amplifier: ± 1/2 db, 20 cps to 500 kc. Input resistance: 1.0 megohms; shunt capacitance: 58 mmfd at input terminals. With shielded direct/low capacitance probe and cable. Brushed aluminum panel. Size, 73/4x5 1/8x 4¾". For 105-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

65 F 088. \$5 Monthly. NET 79.95

WV-87B MASTER VOLTOHMYST

Accurately measures DC voltages in highimpedance circuits, even with AC present. Reads sine waves (rms) and complex waves (peak-to-peak), even with DC present. Voltage ranges: 0-1.5-5-15-50 v. Measdirect current to 15 amps in 9 ranges, resistance from 0.2 ohms to 1000 megohms. Response: flat, 30 cps-3 mc. Has ± 1% resistors, ± 2% meter morent. Mirrored scale, DC polarity switch, zerocenter scale adjustment. 10x131/2x7". For 110-125 v., 50-60 cycle AC. 8 lbs. 65 F 089. \$7 Monthly........NET 137.50

MODEL WV-37B BATTERY TESTER

Accurately tests virtually all types of portable radio batteries. Checks each battery under its recommended load. Indicates "REPLACE-USABLE-GOOD"—shows percentage of rated output. Leads and probes attached. 6 1/8 x 5 1/4 x 3 1/6". Wt., 4 lbs.

ACCESSORY PROBES FOR ABOVE VOM'S AND VTVM'S

84 F 077. WG-289 HV Probe. Extends DC range of VOM's and VTVM's to 50,000 v. Less Multiplier, 1 lb........................NET 7.15

84 F 079. WG-206. 1090 meg. 84 F 083. WG-210. 900 meg..NET EA. 2.80

87 F 091, WG-297 HV Probe. For WV-77E 87 F 092. WG-211 Multiplier. 495-megohm multiplier resistor for WG-289 and WG-297 probes. Shpg. wt., 2 oz........NET 2.80 87 F 077. WG-299D AC-DC-Ohms Probe. Replacement for use with RCAVolt Ohmyst

JUNIOR VOLTOHMYST



WV-77E JR. VOLTOHMYST

Electronically protected. 11-meg. input. Ranges: 0-1000 meg, 7 ranges; AC rms, DC v.: 0-1500 v., 7 ranges; AC p-p v.: 0-4000 v., 6 ranges. DC accuracy: \pm 3%. Response: \pm 5%, 40 cps-5 mc. 7%x5½x4¾". With probes, leads, complete instructions. For operation from 105-120 V., 50-60 cycle AC. Shpg. wt., 5 lbs.

87 F 089. \$5 Monthly.....NET 43.95

83 F 999. WV-77E (K). As above, but in kit form. Wt., 5 lbs. NET 29.95





WO-33A

Model WO-91A Model



5" OSCILLOSCOPE

- Has Z-Axis Input Terminals
- **Preset Sweep Positions**
- Positive-Look Internal Sync

WO-91A. 5" wide-band scope for black and white and color TV servicing. Features: dual-band response; wide-band flat within ±1 db from 10 cps to 4.5 mc; narrow-band flat within ±6 db from 10 cps to 1.5 mc; and voltage-calibrated, frequency compensated 3-to-1 step attenuator. Vertical polarity switch. Plus or minus internal sync selector. Sensitivity: narrow band, 0.05 v. p-p/inch (0.018 v. rms); wide band, 0.150 v p-p/inch (0.053 v. rms). Input, 75 mmf and 1 meg direct. With WG-300A probe. 13½x9x16½". For 105-125 v., 50-60 cycle AC. Shpg. wt., 33 lbs.

84 FU 049. \$13 Monthly.... NET 249.50 87 F 059. WG-300B Low-Capacitance

Probe. Shpg. wt., 1 lb.........NET 9.95 87 F 060. WG-302A Demodulator Probe. Extends range to 250 mc. Input, 2.2 mmf.

3" OSCILLOSCOPE

- Sync Locks in up to 4.5 mc
- Input, 90 mmf, 1 meg Direct

WO-33A. Wide-band responce, 5.5 cps.to 5.5 mc; narrow-band, 20 cps to 150 kc., both within ±3 db. Sensitivity: narrowband, .02 v. p-p/inch (.003 v. rms); wideband, 0.6 v. p-p/inch (0.1 v. rms). Sawtooth, 15 cps to 75 kc. Line sweep: 160° adjustable phase. 8¾x6½x10¾". For 105-125 volts, 50-60 cycle AC. 15 lbs.

87 FU 093. \$7 Monthly NET 129.95

87 FU 094. WO-33A. As above, but in kit form. \$5 Monthly......NET 79.95

LAB MICRO-MHO-METER

Built-In Calibrating Circuit

Comparable Accuracy to Tube Manufacturer's Equipment

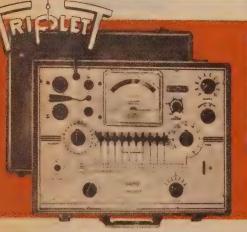
WT-100A. Measures: true transconductance with ±3% accuracy; transconductance to 100,000 µmhos in 6 ranges; control-grid-to plate and suppressor-grid-toplate transconductance. Reads individual electrode currents, AC heater currents including 600-ma series-string TV types; voltage drop across tubes, dry-disc rectifiers and crystal diodes. 8x18 1/2 x23 1/2". For 105-125v.,50-60 cycle AC. 110 lbs

87 FZ 087.....NET 989.00

SOCKET PLUG-INS FOR WT-100A MICRO-MHO-METER

65 F 068. WG-229A Multiple. 7 and 9-pin min; 8-pin octal. 7 oz......NET 25.00 65 F 069. WG-230A Multiple. Lock-in 8-65 F 070. WG-231 A Multiple. Small 4, 5, 65 F 071. WG-232A Multiple. Acorn, sub-

65 F 072. WG-233A Industrial. Miniature 65 F 073. WG-234A Industrial. Octal 8-65 F 074. WG-235A Industrial. Noval 9-65 F 075. WG-236A Kit. Parts for the WT-100A, Shpg. wt., 7 oz.......NET 15.00



MODEL 3444 TUBE ANALYZER

This true dynamic mutal-conductance tube analyzer comprises a complete laboratory-type instrument in a handy portable case. Measures true Gm without any extra compensating factors, using proper DC potentials, 5 kc signal source and a vacuum tube microammeter. Selfchecking circuit checks accuracy of Gm readings on the tester. Also checks plate current cutoff, plots characteristic curves, tests for gas, check's rectifiers under load, etc. In handsome gray leatherette case, 153/6x1813/6x73/". (See CG adapter below and T-2247-BV at right.) For 110-120 volts, 60 cycle AC. Shpg. wt., 24 lbs. 83 FU 964. \$14 Monthly..... NET 279.50

"CG" ADAPTER. Used to extend range of the 3444 tester above to include special tube types. Shpg. wt., 2½ lbs. 87 F 197. \$5 Monthly....... NET 39.50



MODEL 3414 TUBE TESTER

Quickly tests all receiving tubes. Filament voltages from 0.65 to 117 v. Features include: modified plate conductance for closer correlation to tube characteristics; improved neon shorts test indicator; variable leakage test. Offers greater circuit sensitivity for the newer tube types. Has large 4" tri-colored meter. Variableleakage test indicates leakage from approximately 0.3 megs to over 3 megs. Sturdy gray-leatherette covered wood case, 11½x15½x6½". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 13 lbs. 87 FX 154. \$5 Monthly........NET 89.50

T-2247-BV CRT ADAPTER. (Not illus.) For use with Model 3414 and Model 3444 testers. Permits testing television picture in operation—without removing them from receiver. Wt., 1 lb.

84 F 539. NET 7.20

2590 TRANSISTOR TESTER

Tests beta, ICBO and ICEO for both power and signal types. Checks transistors for shorts and leakage; diodes for leakage and forward current. Needs no roll chart. Transistor socket plus 26" external leads permit use with any basing arrangement. Meter has 5 scales in black, red and green. Gray case, 8%x11%x5½". For 105-125 v., 50-60 cycle AC. 9 lbs. 83 FX 965. \$5 Monthly........NET 54.50

3432A SIGNAL GENERATOR

Cathode follower output provides high stability as buffer to oscillator. Covers 160 ke to 110 me (220 me using harmonies). Large, 63/4" dial has 7 directly calibrated 160° scales. Internal modulation variable from 0-100% at 400 cycles. With output cable. 15½2x11½2x6½". For 110-120 v., 50-60 cycle AC. 12 lbs.

84 FX 677. \$6 Monthly. NET 109.50



310 MINIATURE VOM

DC volts: 0-3-12-60-300-1200 at 20 K ohms/v. AC volts: 0-3-12-60-300-1200 at 5K ohms/v. DC μα: 0-600; DC ma, 0-6-60-600. Ohms: 0-20K-200K; megs: 0-2-20. Accuracy: 3% DC. 4½x2¾x1¾6″. 1 lb.

84 FC 674. \$5 Monthly.....NET 37.50

84 F 675. 369 Leather Case. For Model 310

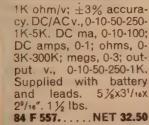
10 AMMETER ADAPTER. For above or any VOM with 3 v. AC at 5K ohms/v. scale. Clamp-on jaws for reading 0-6-12-30-60-120-300 amps AC without breaking circuit

66 F 590. 379 Leather Case. Holds Models 310 and 10. 8 oz......NET 6.00

1/101 LINE SEPARATOR. (Not illus.) For readings with 10, above.

87 F 153.....NET 6.00 100 VOM AND AMMETER SET. (Not illus.) Includes: 310 VOM, 10 adapter, 101, eather case and 311 leads.

MODEL 666-R VOM



66-HH VOM. (Not illus.) 1K ohms/v. AC/DC v., 0-10-50-250-1000-5000; DC ma, 0-100-500; ohms, 0-

2000-400,000.3% accuracy. 5 1/8 x31/16 x29/16".

VOM ACCESSORIES

HIGH VOLTAGE PROBES. Fully insulated. 11 3/4" probe with 48" leads. *For VOM Models 630, 630-A and 631. †For VOM Models 630-PL and 630-APL.

Stock No	Туре	Volts	EACH
87 F 13 84 F 54	T-79-68* T-79-69* T-79-70* T-79-71*	0-12 000 DC 0-12 000 AC 0-30 000 DC 0-30 000 AC	14.50
65 F 09 65 F 10	8 T-79-83 9 T-79-165† 0 T-79-130† T-79-166†	0-10 000 DC 0-10 000 AC 0-25 000 DC 0-25 000 AC	14.50

CARRYING CASES AND STAND. *Black cowhide. TN225A33 is stand.

Sto	ck	No.	Type	For Testers	Wt.	NET
84	F	569	639-N* 639-P*	Series 630 &631 Series 630& 631	11/2	9.90
84	F	560	669*	666-R&666-HH	1 1/2	6.90
84	F.	573	T255A33	Series 630& 631	1	1.00

611 and 311 LEADS, 611 allows use of 10 adapter with 630, 630-A, 630-NA, 630-PL,

311 separates 10 from 310. 1 lb. 87 F 347. 611 87 F 174. 311 ... EACH 2.10







MODEL 800 VOM

Newly designed for lab serviceability, features 70 ranges— $\pm 1\frac{1}{2}\%$ on DC to 1200 v.; $\pm 3\%$ on AC to 1200 v. DC volts: 8 ranges to 6000 (10,000 ohms/v.); 8 ranges to 3000 (20,000 ohms/v.). AC volts: 6 ranges to 6000 (5000 ohms/v.); 6 ranges to 3000 (10,000 ohms/v.) Db.: -30 to +70 in 12 ranges. DC microamps: 1 range to 120 (240 mv); 2 ranges to 600 (120 mv). DC milliamps: 4 ranges to 1200 (240 mv); 3 ranges to 600 (120 mv). DC amps: 1 range to 12 (240 mv); 1 range to 6 (120 mv). Ohms: 3 ranges to 100K, 3 to 100 megs. Has DC polarity reversing switch, and 7" mirror scale. 7½x6½x3½". Supplied with leads and batteries. Shpg. wt., 4 lbs.

83 F 216. \$5 Monthly.....NET 89.50

MODEL 310-C VOM

A new VOM similar to standard 310 (at left), but offers these new features: polarity reversing switch; 15,000 ohms per volt AC sensitivity; and a fully enclosed range switch. 41/2x23/4x15/6 1 lb.

65 FC 096. \$5 Monthly..... NET 44.50

MODEL 850 VTVM

A wide-range VTVM for lab and shop use. Meter has large 7" dial scale. Sensitive 200 µa meter movement is protected against overload. Features 0.5 volt full scale range on DC for checking low voltage circuits; zero center on all DC scales for FM discriminator alignment; single-unit probe has switch for DC or AC ohms. Frequency response is from 15 cps to 3 mc. Ranges: DC volts (11 megohms input resistance). 0-0.5-1.5-5-15-50-150-500-1500; AC RMS volts (0.83 megohms minimum input impedance), 0-1.5-5-15-50-150-500-1500; AC P-P volts, 0-4-14-40-140-400-1400-4000; resistance, 0-1000-10,000-100,000 ohms and 0-1-10-100-1000 megohms. Molded case has aluminum panel. 67/16X 75/x33//". With 48" leads and battery. For 110-120 v., 50-60 cycle AC. 5 lbs.

87 F 348. \$5 Monthly NET 79.50

TRIPLETT VOM'S TOP-PERFORMING



631 VTVM-VOM. Battery operated VTVM, 0-1.2-6-30-120 v., DC; 11 megs input imp. VOM: DC v., 0-3-12-60-300-12K (20K ohms/ v.); AC and audio volts, 0-3-12-60-300-12K (5K ohms/v.); DC µa, 0-60; DC ma, 0-1.2-12-120-1200 (250 mv); DC amps, 0-12 (250 mv); db, -20 to +63; ohms, 0-1500-15K; megs, 0-1.5-150. With batteries and leads.

0-3-12-60-300-1200-6000 (DC at 20,000 ohms/ v., AC at 5,000 ohms/v.); DC current, 0-60 ma, 0-1.2-12-120 ma and 0-12 amps; resistance, 0-1000-10,000 ohms and 0-1-100 megs; db, -20 to +77 in 6 ranges: output v., 0-3-12-60-300-1200. 20-position switch selects circuit and range. 71/2x51/2x37/32". With batteries, leads. 6 lbs.

84 F 568. \$5 Monthly......NET 49.50 630-A VOM. As above, but lab type with 1/2% precision resistors, mirror scale. Accuracy, 1½% on DC to 1200 volts. With leads and batteries. 6 lbs. 84 F 574. \$5 Monthly......NET 59.50

630-NA VOM. 70 ranges: 1½% on DC to 1200 v.; ±3% on AC to 1200 v. DC volts: 8 ranges to 6000 (10,000 ohms/v.); 8 ranges to 3000 (20,000 ohms/v.). AC volts: 6 ranges to 6000 (5000 ohms/v.); 6 ranges to 3000 (10,000 ohms/v.). Db, -20 to +77 in 12 ranges. DC microamps: 1 range to 120 (240 mv); 2 ranges to 600 (120 mv). DC ma: 4 ranges to 1200 (240 mv); 3 ranges to 600 (120 mv). DC amps: 1 range to 12 (240 mv); 1 range to 6 (120 mv). Ohms: 3 ranges to 100K, 3 to 100 megs. 71/2x51/2x311/2" Mirror scale. Supplied with test leads and bat-

teries. Shpg. wt., 4 lbs. 84 F 512. \$5 Monthly.... .NET 79.50 630-PL VOM. AC and DC v., 6 ranges each, to 5000 v. (DC at 20,000 ohms/v.; AC at 5000 ohms/v.); DC current, 0-100 µa, 0-10-100-1000 ma, and 0-10 amps; res., 0-1000-10,000 ohms and 0-1-100 megs; db, -20 to +75 in 6 ranges; output v., 0-3-10-50-250-1000 at 5000 ohms/v. Acc.: ±3% on DC to 1000 v.; ±4% on AC to 1000 v.; ±5% on AC-DC at 5000 v. 7½x5½x3¹⅓₂″. With leads and batteries. 4 lbs.

87 F 150. \$5 Monthly......NET 49.50

EICO

Top-Quality Test Instruments



R-C BRIDGE KIT
MODEL 950-K. Combines an R-C bridge and R-C-L comparator. Measures (in 4 ranges) 0.5 ohms to 500 megs and 10 mmf to 5000 mfd. Has .05 to 20 comparator range. Variable 0-500 v. DC source tests capacitors for shorts and leakage at rated v. Measures power factor of electrolytics. Less solder, leads. 8x10x43/4". For 105-125 v., 60 cycle AC. Wt., 10 lbs.

83 F 164. \$5 Monthly......NET 19.95

84 F 387. Above, Factory-Wired ... 29.95

RESISTANCE SUB. BOX KIT

MODEL 1100-K. (Not illus.) Gives all values that are multiples of ten of 15, 22, 33, 47, 68 and 100 ohms, from 15 ohms to 10 megs (1-watt, 10%). 5-way binding posts. 33/x 61/2x31/2". Less solder, leads. 2 lbs. 83 F 179. NET 6.95

84 F 652. Above, Factory-Wired....10.95

CAPACITOR SUB. BOX KIT

MODEL 1120-K. (Not illus.) Wide range of values from 0.0001 to 0.22 mfd in 18 steps. ±10% accuracy. Most capacitors rated 600 v., others, 400 v. 5-way binding posts. 3¾x6½x3½". Supplied less solder, leads. Shpg. wt., 2 lbs.

83 F 191...NET **5.9**5

84 F 665. Above, Factory-Wired. ... 9.95

R-C COMBINATION BOX KIT

Series /Parallel R-C Combination Box

1140-K

1171-K

MODEL 1140-K. Versatile combination of Models 1100-K and 1120-K substitution units (see specs., at left). Allows development of differentiating, integrating and other wave-shaping R-C networks. 10% accuracy. Jack-top binding posts. Less solder, leads. 55/16×6 1/8×25/16". 3 lbs.

87 F 350 NET 13.95

87 F 351. Above, Factory-Wired....19.95

RESISTANCE DECADE BOX KIT MODEL 1171-K. Values from 0 to 99,999 ohms in 1-ohm steps with 1/2% accuracy. 1-w. resistors. Five switches. Comparator position and binding posts for instant substitution. 12x3 1/2x

Less solder, leads. 3 lbs. 83 F 165. \$5 Monthly.....NET 19.95

84 F 388. Above, Factory-Wired....24.95

CAPACITOR DECADE BOX KIT

MODEL 1180-K. (Not illus.) 100 mmf to .111 mfd in 100 mmf steps. 350 WVDC, 1% micas. Positive detent ceramic switches. Zero capacitance, 7 mmf. 9x3 ½x3 ½". Less solder and leads. Wt., 3 lbs.

83 F 183 NET 14.95

1180. As above, but factory-wired.

84 F 656. \$5 Monthly......19.95

DELUXE SIGNAL TRACER KIT

MODEL 147-K. High and low-gain RF channels with internal wide-range demodulator permit direct observation of signal. Has output for VTVM or scope. Use as speaker, output transformer, or amplifier. Features RF, AF visual-aural monitoring, magic eye, 5" speaker, watt-meter, noise localizer, hum balance. Gray case, 9x10x 5". With probes; less solder. For 105-125 v., 60 cycle AC. 10 lbs.

83 F 190. \$5 Monthly NET 24.95

MODEL 147. As above, but factory-wired. 84 F 664. \$5 Monthly NET 39.95



SIGNAL TRACER KIT

000

MODEL 145K. Checks IF, RF, video and audio circuits. Has speaker, amplifier and noise locator. Use with scope or VTVM for visual tracing. With

probes. 713/16x53/16x51/16. For 105-125 v., 60 cycle AC. 7 lbs.

83 F 158. \$5 Monthly NET 19.95

MODEL 145. As above, but factory-wired. 84 F 385. \$5 Monthly NET 28.95









MODEL 630-K CRT CHECKER KIT. Has bridge for measuring peak beam current (proportional to screen brightness). 2 sockets for 12 and 14-pin tubes. Neon lamp indicator. 6 1/2 x 9 1/2 x 3". Less solder. For 105-125 v., 60 cycle AC. 5 lbs.

83 F 177......NET 13.95

MODEL 630. As above, but factory-wired 84 F 650 NET 18.95

352-K BAR GENERATOR KIT. Adjusts vertical and horizontal linearity. Produces 16 vertical and 12 horizontal bars. Video tunable over channels 2-6. 3-way antenna clip. 7½x5x4½". Less solder. For 105-125 v.. 60 cycle AC. 4 lbs.

83 F 178 NET 14.95

MODEL 352. As above, but factory-wired. 84 F 651. \$5 Monthly NET 19.95 944-K FLYBACK TESTER KIT. Spots defective flyback transformers and yokes in black and white and color TV sets. Also checks continuity. 41/2" meter. Gray case, 81/2x5x5". Less solder. For 105-125 v., 60 cycle AC. Wt., 5 lbs.

83 F 184. \$5 Monthly......NET 23.95

MODEL 944. As above, but factory-wired. 84 F 657. \$5 Monthly NET 34.95

612-K CONTINUITY TESTER KIT. (Not illus.) Battery powered-checks tube filaments in series string. Neon lamp indicator. CRT adapter plug. 7, 9-pin, octal and loctal sockets. 61/4x33/4x2". With batteries. Less solder. 2 lbs.

83 F 966......NET 3.95

MODEL 612. As above, but factory-wired.

710-K GRID-DIP METER KIT. Covers 400 kc to 250 mc in 8 ranges. Has sensitivity control, phone jack, 500 µa meter, plug-in coils, illuminated scale. 21/4x29/6x61/8". Less solder. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

87 F 352. \$5 Monthly.......NET 29.95

MODEL 710. As above, but factory-wired. 87 F 353. \$5 Monthly NET 49.95

MODEL 584-K BATTERY TESTER KIT. Tests Portable radio "A" and "B" batteries in or out of receiver. Test-switch positions (v.): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 75, 90, spare. 61/4x3 1/4x2". Less solder. With leads, 2 lbs.

MODEL 584. As above, but factory-wired. 84 F 671NET 12.95

Both Kit and Wired Form



 Push-Pull Outputs **Both Amplifiers**

- 5-Inch Cathode Ray Tube
- Wide Frequency Range

New Model 427-K 5" Wide-Band Scope Kit

DEL 337-K. Uses Wien-Bridge type ositor circuit with 1% resistors for sine square waves. Perfect for servicemen,

byists, etc. Sine wave range: 20-200,000 in 4 bands, $\pm 1\%$ db from 60-150,000, less than 1% distortion. Square wave ge: 60-50,000 cps in 4 bands. 5% tilt at eps. 5% rounding at 30,000 cps. Out-10 v. across 1000 ohms. 61/2" dial has 0 reference scale. Calibration accu-y, ±3% or 1 cps. 7 1/8 x11 1/6 x7 5/7. Less ier, leads. For 105-125 v., 50-60 cycle , 14 lbs.

FX 169. \$5 Monthly......NET 31.95

DEL 377. As above, but factory-wired. FU 349. \$5 Monthly.....NET 49.95



Generator / Marker Kit



360K Sweep Generator

DEL 368-K. Accurately aligns FM, coland black and white TV. Covers 3 to mc in 5 ranges. Var. freq. marker proes output from 2 to 75 mc on fundantals; to 225 mc on harmonics. Sweep es from 0-30 mc. Built-in 4.5-mc crysmarker for oscillator. Dual markers for or IF alignment. Provision for adding ernal marker. Continuously variable peep and marker attenuators. Has re-be blanking. Output imp., 50 ohms. a tubes; rectifier. 8 1/4 x 13 1/4 x 7 1/4". For 105-

volts, 50-60 cycle AC. 16 lbs. FU 950. \$5 Monthly......NET 69.95 DEL 368. As above, but factory-wired. FU 225. \$6 Monthly......NET 119.95

DEL 360-K. Covers 500 kc to 228 mc. riable sweep, 0-30 mc. Crystal marker with variable amplitude. Provision for ection of external marker. Less 5-mc stal. 8x10x6¾". For 105-125 v., 50-60 cle AC. Wt., 12 lbs.

.NET 34.95 F 159. \$5 Monthly......NET 34.95 DDEL 360. As above, but factory-wired. FU 342. \$5 Monthly......NET 49.95

Sensitivity, 0.18 V rms per centimeter. Response, 2 cps to 450 kc. Input imp., 10 meg. Sweep range, 10-100,000 cps. External sync input. 12½x8½x16¾6". For 105-125 v., 60 cycle AC. 30 lbs. 65 FU 964. \$5 Monthly.....NET 69.95

MODEL 427. As above, but factory-wired. 65 FU 065. \$5 Monthly......NET 109.95

488-K ELECTRONIC SWITCH KIT. For viewing 2 patterns on 1 scope. Variable switching, 10-2000 cps. Resp., 0-30,000 cps (±2 db). 6x8x6". Less leads. For 105-125

v., 50-60 cycle AC. 7 lbs. 83 F 185. \$5 Monthly......NET 23.95

MODEL 488. As above, but factory-wired. 84 F 658. \$5 Monthly.......NET 39.95

SCORE PRORES Shielded Av wt. 507.

Stock No.	Туре	Description	NET
83 F 180	PSD-K	Demodulator Probe Kit. As above, but wired. Direct Probe Kit. As above, but wired. Low-Capacity Probe Kit. As above, but wired.	3.95
84 F 653	PSD		5.95
83 F 181	PD-K		2.95
84 F 654	PD		3.95
83 F 182	PLC-K		3.95
84 F 655	PLC		5.95

5" OSCILLOSCOPE KIT

MODEL 460-K. Wide-band, for color and monochrome TV. Response flat from DC to 4.5 mc, usable to 10 mc. Reproduces 3.58 mc color TV sync burst. Vertical sensitivity, 25 mv /inch. Permits peak-to-peak measurements. Full-screen DC vertical positioning, 2X horizontal positioning. Sweep: 10 cps to 100 kc, plus low freq. sweep. Size, 13x8 ½x16". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 29 lbs. 83 FU 193. \$5 Monthly......NET 79.95

MODEL 460. As above, but factory-wired. 84 FU 668. \$7 Monthly......NET 129.50

VOLTAGE CALIBRATOR KIT

MODEL 495-K. (Not illus.) Ranges: 0-.1-1-10-100 v., p-p. Accuracy, ±5%. 5x75/x4". Less leads. For 105-125 v., 60 cycle AC. Wt., 4 lbs. 83 F 176..... NET 12.95

MODEL 495. As above, but factory-wired. 84 F 384 NET 17.95

RF SIGNAL GENERATOR KITS







MODEL 320-K. Uses stable Hartley oscillator. Covers 150 kc to 34 mc on fundamentals-to 102 mc on harmonics. 400 cps modulation. 9" dial, calibrated in 7 bands. 8x1x43//. Less solder. For 105-125 volts, 50-60 cycle AC. 10 lbs.

83 F 154. \$5 Monthly.....NET 19.95 MODEL 320. As above, but factory-wired. 84 F 394. \$5 Monthly......NET 29.95 MODEL 322-K. Kit, as above, but with individual calibration of each of 5 bands. 65 F 066. \$5 Monthly..... ... NET 23.95 MODEL 322. As above, but factory-wired. ator with attenuator. 13x12x7". For 105-125 v., 50-60 cycle AC. Wt., 20 lbs.

83 FU 162. \$5 Monthly......NET 39.95 MODEL 315. As above, but factory-wired. 84 FU 395. \$5 Monthly......NET 59.95 MODEL 324-K. An accurate, wide-range signal-generator. The Model 324-K provides modulated or unmodulated RF signal and continuous output from 150 kc to 435 mc. Has expanded frequency range of 6 fundamental bands: 150-400 kc, 400-1200 kc, 1.2-3.5 mc, 3.5-11 mc, 11-37 mc and 37-145 mc. One harmonic band covers 111-435 mc. Calib. accuracy, ±1.5%. Output impedance, 50 ohms. Internal modulation of 400 cps variable from 0 to 50%; can be used for audio testing. Input has gain control for use with external modulator.

Colpitts RF oscillator is directly modulated by cathode follower. Fine and coarse RF attenuators. 6:1 vernier tuning knob. Size, 8x10x43/". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 192. \$5 Monthly.....NET 26.95

MODEL 324. As above, but factory-wired. 84 F 666. \$5 Monthly...........NET 39.95

FEICO Accurate, Versatile Test Equipment for A



NEW DELUXE SERIES METER KITS





Meters With Versatility-

Compactness-222-KVTVM

MODEL 222-K. 11-meg DC input, 41/2" meter and 1% multiplier resistors. Ranges: AC-DC v., 0-3-15-75-300-1500; resistance, 0.2-1000 meg in 5 ranges. With leads; less solder. Size, 8 ½x5 ½x7". For 105-125 v., 50-60 cycle AC. 7 lbs.

65 F 043..... NET 27.95

MODEL 222. As above, but factory-wired 65 F 042 NET 42.95

AC VOLT-WATT METER KIT

MODEL 261-K. Reads AC v.: 1 mv to 1000 in 11 ranges. Reads power: .015 my to 150 w. in 7 ranges. 81/2x53/4x7". For 105-125 50-60 cycle AC. 6 lbs.

65 F 041 NET 49.95

MODEL 261. As above, but factory-wired

MODEL 255-K AC VTVM KIT

Lab-sensitive 12-range unit. Has framegrid triode cathode follower input circuit; 2-stage R-C coupled amplifier. Range: 1 3-10-30-100-300 rms mv; 1-3-10-30-100-300 rms v. Response, 0 db 10 cps to 600 kc. Accuracy, $\pm 3\%$ of full scale. Less solder. $8\frac{1}{2}x5\frac{3}{4}x7''$. For 105-125 v., 50-60 cycle AC. 7 lbs.

65 F 039 NET 44.95

MODEL 225. As above, but factory-wired. 65 F 038 NET 72.95

AC VTVM and AMPLIFIER KIT

MODEL 250-K. Same as 255-K above, but selector switch on panel converts unit to amplifier with 60 db gain on 1 mv range. Max. output: 5 v. rms. 7 lbs.

65 F 037.....NET 49.95

MODEL 250. As above, but factory-wired. 65 F 036 NET 79.95



BEST-QUALITY STANDARD VOM KITS

MODEL 566-K VOM KIT

Has easy-to-read 41/2" meter for 38 ranges. Rectifier in dual half-wave hook-up. Uses divider resistors. AC /DC range: 0-1-5-10-50-100-500-5000 v. at 1000 ohms per v.; 0-1-10 ma and 0.1-1 a.; 0-5000-100,000 ohms 0-1 meg; 6 db ranges, -20 to +69. With case. Less solder and leads. Size, 63/4x 51/4x3". Shpg. wt., 3 lbs.

65 F 045 NET 14.90

MODEL 566. As above, but factory-wired. 65 F 044 NET 20.95

MODEL 556-K. Same as 566-K, but has 1% precision resistors. 3 lbs.

83 F 173.....NET 16.90

MODEL 556. As above, but factory-wired.

84 F 347 NET 23.50

MODEL 536-K. Same as 566-K, but has 3" meter and 31 ranges. 3 lbs. 83 F 171 NET 12.90

MODEL 536. As above, but factory-wired. 84 F 345 NET 16.90

MODEL 565-K VOM KIT

A 31-range VOM featuring 20,000 ohms / volt DC sensitivity and 4½" meter with 50 µa movement. Ranges: DC, AC, output volts, 0-2.5-10-50-250-1000-5000 (AC at 1000 ohms /v.); DC, 0-100 µa, 0-10-100-500 ma, 0-10 a.; 0-2000-200,000 ohms, 0-20 megs; -12 to +55 db in 5 ranges. With batteries. Less leads, solder. 63/4x51/4x3". 4lbs.

83 F 172......NET 24.95

MODEL 565. As above, but factory-wired. 84 F 346 NET 29.95

MODEL 555-K. Same as 565-K, but has 1% precision resistors.

83 F 167.....NET 29.95 MODEL 555. As above, but factory-wired.

84 F 391NET 34.95 MODEL 526-K. Same as 536-K (at left), but

has 1% precision resistors. 83 F 166.....NET 13.90

MODEL 526. As above, but factory-wired.



MODEL 249-K VTVM KIT

Peak-to-peak VTVM for color and m chrome TV servicing. Has big 71/2" m balanced-bridge circuit, 1% multiplie sistors and "Uni-Probe." Ranges: volts, 0-4-14-42-140-420-1400-4200 volts /rms volts, 0-1.5-5-15-50-150-500-1500 v resistance, 0-1000 megs in 7 ranges. solder. 8 ½x13x5". For 105-125 v., 50-60 cle AC. Shpg. wt., 9 lbs. 83 F 187..... NET 39

MODEL 249. As above, but factory-wi 84 F 660NET 5

MODEL 232-K. Same as 249-K, but 41/2" meter. 81/2x5x5". Wt. 5 lbs. 83 F 186. NET 29

MODEL 232. As above, but factory-wi 84 F 659NET 4

MODEL 221-K VTVM KIT

Similar to model 222-K, but has 25 i DC input and AC/DC ranges to 100 With leads. 97/16x16x5". 7 lbs. 83 F 152.....NET 25

MODEL 221. As above, but factory-wi 84 FX 389......NET 3

MODEL 214-K. (Not illus.) Same as 22 but has large 7½" meter. 9x13½x6". L solder. Shpg. wt., 11 lbs.

83 FX 170..... NET 34. MODEL 214. As above, but factory-will

84 FX 344......NET 5 **VTVM PROBES**

Use with Eico VTVM s. Av. wt., 1 lb.

Stock No.	Туре	Description	Ī
83 F 88 84 F 66	PTP-25-K PTP-25	P-to-P Kit for 11 megs As above, but factory-wired P-to-P Kit for 25 megs As above, but factory-wired	7
84 F 662	PRF-25 PRF-11-K	RF kit for 25 megs As above, but factory-wired RF kit for 11 megs As above, but factory-wired	3

HIGH VOLTAGE PROBE. Extends rar of VTVM's to 30,000 v: Wired. 1/2 lb. 65 F 050. HVP-1.

Express Shipment Recommended for Test Instrumen



540-K READI-TESTER KIT

n-one AC/DC voltmeter, ammeter, meter, wattmeter and leakage tester. ges: AC/DC volts, 0-7.5-15-150-300; DC amps 0-15; Resistance, 0-1000 s. Has neon indicator and 3½" meter. gl outlet for current metering. Alumipanel and bakelite case. With leads. solder. 6½x3¾x3½". 3 lbs.

199.....NET 12.95

-K CAPACITOR CHECKER KIT

reniently checks capacitors in circuit. cks capacitors from 15 mmf to 2000 for opens, shorts or intermittents, use shunt resistance balancing pron, permits testing capacitors coned in parallel with resistance as low 5 ohms. Has 4" capacity scale. 81/2x 6". Less leads and solder, For 105-130 cycle AC. Wt. 6 lbs.

056...... NET 19.95

OEL 955. As above, but factory-wired.
NET 39.95

680-K TRANSISTOR TESTER KIT

Accurately measures basic transistor and diode characteristics. Measures ICBO, IC-EO, DC Beta; simulated AC Beta. 20,000 ohm/v. meter reads 0-5-50 DC volts; 0-2000-200,000 ohms and 0-20 megs resistance; also 0-50-500 µa and 0-5-50-500 ma DC. Plastic case, 63/x51/x3". With leads, batteries. Less solder. 3 lbs.

65 F 054 NET 25.95

625-K TUBE TESTER KIT

Tests tubes for emission, shorts, opens and continuity. Full-vision 4½" meter with 3-color "Replace-Weak-Geod" scale and 0-to-1000 scale. Fused. Ten lever-action switches. Less solder. 9½x12½x4¼". For 105-125 v., 60 cycle AC, 12 lbs.

105-125 v., 60 cycle AC. 12 lbs. 83 FX 161 NET 34.95

MODEL 625. As above, but factory-wired. **84 FX 397......NET 49.95**

MODEL L-1. Lid for the 625-K and 625. 83 FX 880 NET 3.90

TUBE-TRANSISTOR TESTER KIT

666-K

MODEL 666-K. 4½" meter reads Gm, Gp; peak emission, leakage of tubes; transistor coll. current and amplif. factor. Roll-chart. 12x15x4½". Less solder. For 105-130 v., 50-60 cycle AC. 20 lbs.

83 FX 198 NET 69.95

MODEL 610 TUBE TESTER ADAPTER. Adapts 625 and 666 Testers to checking new tube types: 5 and 7 pin nuvistors; novars; 10-pin miniatures; and 12-pin compactrons. With roll-chart supplements. Size, 11/4x21/2x6". Shpg. wt., 1 lb.

65 F 047. Kit NET 5.95 65 F 046. Wired NET 11.95

MODEL CRA-110. As above but tests only 110° picture tubes. 1 lb.

Weston and Jackson Equipment





One-Knob
Control For
Function
And Range

STON 980 MARKII ANALYZER. Has 4.63" scale. Accuracy, 2% DC; 3%, AC. AC v.: 0-1.6-8-40-160-400-1600 at 1000 ohms /volt. v.: 0-1.6-8-40-160-4000 at 20,000 ohms /volt. DC curt: 0-80 μα; 0-1.6-8-80-800 mα; Resistance, 0-1K-10K-100K; Megs, 10—center scale, 25. Db: 6 ranges, —15 to +54. With leads.





JACKSON 600 LAB SCOPE. Wide-band vertical amplifier, flat within 1 db from 20 cps to 4.9 mc, usable to 10 mc. Two-range sensitivity, from 20 mv /inch. Hor. amplifier response uniform within 2 db from 20 cps to 200 kc. Linear range, 10 cps-100 kc. Has internal 10 v. P-P calibration voltage. 15x9 1/8x13". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

**NET 335.00 LC2-1P PROBE. For circuits to 25 volts. Shpg. wt., 1 lb.

DEM-P PROBE. For signal tracing RF, IF sections. 2 lbs.
65 F 059 NET 9.



Precision Test Equipment Offe

Every Instrument You Need for Servicing Equipment

ES-150 OSCILLOSCOPE

A lab-type Instrument for black and white and color TV, with push-pull outputs in both amplifiers. Sensitivity: Vertical: DC-70 mv/in.; AC—25 mv rms/in.; Hor.—0.6 v. rms/in. Response: Vert.—DC, ± 3 db to 4.5 mc; AC, ±3 db, 1 cps to 4.5 mc; Hor.—3 db, 1 cps to 400 kc. Input imp.: Vert.—1.5 megs; hor.-5 megs. Has p-p voltage calibrator and vertical polarity reversal switch. 00x00x00". For 110-120 v., 50-60 cycles AC-DC. 30 lbs.

87 FU 041 \$8 Monthly NET 145.95

E-200C SIGNAL GENERATOR

Deluxe, extremely sensitive signal-marker generator for AM, FM and TV alignment. For use with the E-410 below, or any other high-quality sweep signal generator. Calibrated on each brad against laboratory crystal standards. 1% accuracy on 10 easy-to-read ranges. Frequency coverage: 88 kc to 440 mc; to 110 mc on fundamentals. Direct-reading 6½" dial has 0-1000 vernier scale. Outputs: unmodulated RF; 400cycle modulated RF; 400-cycle modulated RF; and 400-cycle sine wave output. Supplies 0-50 volts AVC-AGC voltage. Dual RF attenuators. With cable, connectors, and manual, 11 ½x13x6 ½". For 110-120 v., 50-60 cycle AC. 17 lbs. 87 FU 000. \$6 Monthly..... NET 107.75

E-410 SIGNAL GENERATOR

Excellent for FM and TV alignment. Has built-in marker-adder to avoid overloading of receiver circuits when inserting markers. Sweeps from 3 mc to 213 mc in 5 ranges with width continually variable from 0-30 mc. Output impedance, 50 ohms. Dual attenuators control RF output. Has AGC to regulate voltage amplitude on any band. 8½x13x7". With 4.5 crystal. For 110-120 v., 50-60 cycles AC. 14 lbs.

87 FU 042. \$8 Monthly......NET 156.75

120 MULTI-RANGE VOM

A very sensitive instrument featuring: 61 ranges, 1% precision resistors, ±2% full-scale accuracy, mirrored scale and polarity reversing switch. Ranges: AC, +DC, -DC, output v., 0-0.3-1.2-3-12-60-300-600-1200-6000 with 5000 ohms per volt on AC and 20,000 ohms per voit on DC; DC, 0-60-300 µa, 0-1.2-12-120-600 ma, 0-12 amps; 0-200-2000-200,000 ohms, 0-2-20 megs; 8 db ranges, -20 to +77. Has full-view 5 ½" meter. With batteries and leads. Size, 7x5 ½ x3". Shpg. wt., 5 lbs. 84 F 490. \$5 Monthly......NET 44.05

MODEL 120M VOM

(Not illustrated.) Same as Model 120 (above), but has ½% precision multiplier resistors and a 1% mirrored-scale meter. 1½% accuracy on DC; 3% on AC. 87 F 080. \$5 Monthly......NET 54.83

LC-3 "EVEREADY" CASE. For models 120 and 120M. Shpg. wt., 3 lbs.

TV-2B HV SAFETY TEST PROBE. For models 120 and 120M. Extends DC range to 30,000 volts. Wt., 2 lbs.

ST-1 RETRACTABLE STAND. For Models 88, 120 and 120M. Wt., 1 lb.

CAPACITOR-RESISTOR BRI

CB-26. Versatile instrument for mea virtually any unknown resistant capacitance. Quickly measures paper and electrolytic capacitor le Checks insulation resistance, windi transformers and cable wires. Ca ranges: 10 mmf to 5000 mmf; .001 .5 mfd; .1 mfd to 50 mfd; 20 mfd t mfd. Resistance ranges: .5 to 500 50 to 50,000 ohms; 5000 ohms to 5 m

E-450 DOT-BAR GENERATO

A compact instrument that tests adjusts the color-phasing, matrixing arity and convergence circuits in all TV receivers. Provides direct RF c on either channel 3 or 4. Adjusts nu and thickness of horizontal and ve bars. 300 ohm output impedance. G ates: white dots, vertical and hori: bars and crosshatch pattern. In ru blue-gray shielded steel case, 12x (With cables.) For 110-120 v., 50-60 (AC. 14 lbs.

65 FX 102. \$8 Monthly.....NET 18

P-28 BATTERY ELIMINATO

Designed especially to meet the rigid ripple output requirements to power sistor auto radios and other 6-12 v. e ment. Also makes an efficient be charger with high-current output at rately labled terminals. Has variable put of 0-8 or 0-16 volts, DC. Current ra continuous—10 amps at 6 volts; 6 at 12 volts; intermittent—20 amps volts; 12 amps at 12 volts. Low ripple put: 5 amps at 6 and 12 volts. Ove protected. 11/x71/x7." For 110-12 50-60 cycles AC. 21 lbs. 85 FU 005. \$5 Monthly......NET 6

IC-60 CAPACITOR CHECKE

(Not illustrated.) Designed to make accurate checks for open or shorte pacitors without removing them from cuit. Also reveals dried-out, shorte open electrolytics while in circuit. electrolytic that yields a capacity rea on dial is automatically revealed as open or shorted. Checks opens from 10 ohms. Checks trolytics from 2 mfd to 400 mfd in 2 rai Has ripple-finish steel case, 5%x7½x For 110-120 v., 60 cycle AC. 6 lbs. 65 F 103. \$5 Monthly......NET 32

RS-24 POWER SUPPLY

(Not illustrated.) A source of vari regulated DC plate voltages, plus bias AC filament voltages with a 12.6 v supply. Excellent for circuit testing development. Eliminates need for s rate power supplies for each new cir Variable output of 0-400 volts, DC. Ri less than .003 v. rms. AC supply: ot #1, 6.3 volts at 3 amps; output #2, 6.3 at 3 amps; 12.6 volts at 3 amps by i connecting panel terminals. Milliamn range, 0-200 ma. D'Arsonval meters ternal impedance, less than 10 ohms DC to 1 mc. 81/2x13x7". For 110-120 \ cycle AC. 20 lbs. 85 FU 000. \$5 Monthly......NET 97

Express or Truck Shipment Suggested for Test G

need, Reliability and Accuracy

Quickly Pay for Themselves in Time and Trouble Saved

DEL 650 TUBE TESTER. Quickly and rately tests: 10-pin miniatures, 12-compactrons, 5 and 7-pin nuvistors, rs, octals, loctals, 9-pin novals, 7-pin atures (including battery types), voltregulator types, industrial and pean tubes. Checks for shorts, emisopens and continuity. Also checks ire tubes with adapter (below). Size, x141/2". 60 cycle AC. Wt., 9 lbs.

U 043. \$5 Monthly.....NET 68.55 104. PTA Picture Tube Adapter. For

DEL CR-60 CRT TESTER. Speedily and rejuvenates color and black and e picture tubes. Checks for emission, ts, opens and cutoff voltage. Tests 's with filament voltages from 1.5 to 12 , and 1100,1140, G2,19" and 20" tubes. cks each color gun separately. Size, x5x7½". For 110-120 volts, 60 cycle AC. g. wt., 7 lbs.

105. \$5 Monthly.......NET 63.65

DEL 48 VTVM. (Not Illus.) Has 45/4" ges: DC volts (11 meg input), 0-1.5-0-150-500-1500; AC rms volts, 0-1.5-5-0-150-500-1500; AC P-P volts, 0-4-14-40-400-1400-4000; ohms, 0-1000-10,000-.000 and 0-1-10-100-1000 megs. 7 db es: -6 to +66. 3-way probe. For 110-v., 50-60 cycle AC. 6 lbs.

106. \$5 Monthly.....NET 54.83

107. Hi-Freg. Probe. 6 oz. 6.81 108. Hi-Volt. Probe. 8 oz........6.81 **MODEL 100 POCKET VOM.** 1000 ohms/v. DC, AC sens. AC v., 0-6-30-150-600-1500-6000; DC v., 0-0.3-6-30-150-600-1500-6000; DC cur., 0-600 µa, 0-6-60-300 ma and 0-1.5 amps; res., 0-2000-200,000 ohms, 0-2 megs; db, -6 to +77 (6 ranges). 3½" meter, 400 μa sens. 1% resistors. 5¾x3½x11¼6." With batteries, leads. 2 lbs.

65 F 109. \$5 Monthly......NET 31.31

110 POCKET VOM. (Not illus.) 20,000 ohms/v. DC; 5000, AC. DC v., 0-0.3-1.5-6-30-150-600-3000; AC v., 0-1.5-30-150-600-3000; DC cur., 0-60-600 µa, 0-6-60-600 ma; res., 0-2000-200,000 ohms, 0-20 megs; db., -20 to +71 (6 ranges). Meter, 50 µa sens. 1% resistors. 53/x31/x111/16." With batteries and leads. 2 lbs.

87 F 023. \$5 Monthly......NET 35.23 65 F 110. Case for Above. 8 oz......6.81 65 F 111. H-V Probe. 8 oz..... NET 15.23

MODEL E-75 RF SIGNAL GENERATOR. Provides 160 kc to 240 kc; 400 cps audio output (up to 15 v.); 40 mc TV IF frequencies. 11 ½x7½x6½". For 110-120 volts, 50-60 cycle AC. Wt., 9 lbs.

65 FX 112. \$5 Monthly......NET 48.95

MODEL 68 VTVM. Has large $5\frac{1}{2}$ " meter, 400 μ a sens., $\pm 2\%$ accuracy. 5+ and - DC v. ranges, 0-3-12-60-300-1200 (13 $\frac{1}{3}$ megs); AC v. rms, 0-3-12-60-300-1200 (10.00) 0-8-32-160-800-3200; resistance, 0-1000-100,000 ohms and 0-10-100-1000 megs. 1% multipliers and shunts. In blue-gray cabinet, 51/4x73/4x31/2". With AC-DC probe, batteries and manual. Wt., 6 lbs. 65 F 113. \$5 Monthly......NET 69.53



Sprague and Cornell-Dubilier Capacitor Checkers



SPRAGUE MODEL TO-5 TEL-OHMIKE

lge-type capacitor analyzer measures capacitance, insulation stance, power factor and leakage current. Capacitance ge reads to 2000 mfd—includes special low-capacitance ge: 0-100 mmf with $\pm\,2\%$ or 1 mmf accuracy. "Magic-Eye" inites balance. Shows insulation resistance to 20,000 megs. ver factor of electrolytics is measured to 55%. Gives leakage ent reading for electrolytics with exact rated voltage to 600 v.

SPRAGUE MODEL M-2 MIKE-O-METER

igned to test capacitors for air conditioning, refrigeration electric motor service technicians. Measures capacitance power factor of capacitors from 0.1 to 2000 mfd with Wien ge. "Magic-Eye" shows balance. No voltage appears at terminals until the "Slide-To-Test" switch is pressed. Autoically discharges any residual charge on capacitors upon ase. Sturdy, gray-enamel steel case, size 9x6x5 3/4". For 110-120 s, 6 cycle AC. Shpg. wt., 8 lbs. 224. \$5 Monthly......NET 31.85



C-D BF-90 CAPACITOR CHECKER

Accurately checks all capacitors without having to remove them from circuit. Capacitor condition is indicated by a "Magic-Eye. 60 cycle test for direct or intermittent short; 20 mc test for open or intermittent. Checks capacitors from 30 mmf to 2000 mfd for open, short or intermittent condition; from .1 mfd to 2000 mfd for shorts. Accurately tests capacitors even when in parallel with 50-ohm resistance. In sturdy, easy-to-carry metal case, size 7x10x5½". Furnished with leads. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 8 lbs. 84 FX 619. \$5 Monthly......NET 40.91

C-D BF-60 CAPACITOR-RESISTOR BRIDGE

Makes fast and easy checks for opens, shorts, intermittents capacity and power factor of electrolytics, as well as the insulation resistance of paper, mica and ceramic capacitors. The BF-60 measures capacity between wires and shielding, transformer windings, etc. Ranges: 10 mmf-.005 mfd; .001-5 mfd; .1-50 mfd; 20-1000 mfd; 100-50,000 ohms and 10,000 ohms to 5 megs. 5 polarizing voltages: 25, 150, 250, 350 and 450 DC. Size, 5 ½x7x10". For 110-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

84 FX 457. \$5 Monthly......NET 50.81













Just Plug In Adapter

7"-SCALE VOMs

20,000 OHMS/V. DC 260 AND 270 VOMs 260—SERIES III. Its low cost and dependability have made it one of the world's most popular VOMs. 2-color scales, 5000 ohms/v. AC sensitivity, polarity reversing switch, full-wave bridge rectifier, response to 500,000 cps. Ranges: DC mv, 0-250; AC and DC v., 0-2.5-10-50-250-1000-5000; AF output v., 0-2.5-10-50-250; DC μa, 0-50; DC ma, 0-1-10-100-500; DC amps, 0-10; res., 0-20 megs in 3 ranges; db, -20 to +50 in 4 ranges. $7x5 \frac{1}{4}x3 \frac{1}{6}$ ". Batteries, leads. Shpg. wt., 5 lbs.

.....NET **48.95**

87 F 112. MODEL 260RT. Above in roll-top case. Size, 9x63/8x43/4

270. Deluxe version of the 260. Will give identical readings days or even weeks apart. Has all 260 features plus mirrored scale, knife-edge pointer, extra-high stability, 11/2% accuracy. 7x51/4x. Batteries, leads. 5 lbs.

87 F 149. MODEL 270RT. Above in roll-top case. Size, 9x6 1/8x4 3/4" Shpg. wt., 9 lbs......NET 69.95

ACCESSORIES FOR THE 260 AND 270

Stock No.	Туре	Description	For Models	Lbs.	NET
87 F 24 87 F 15 87 F 16 87 F 16 84 F 72 84 F 782	0248 8375 7500 4236	HV probe; 25 KV range. HV probe; 50 KV range. Leads; alligator clips L terms. Leads; banana plugs allig. clip. Ever-Ready Leather Case Standard Leather Case	260-111 270 260-111 270 260-11 260-111 260, 270, 303 260, 270	1/2 1/2 1/2 1/2 1/2 1/2 2	11.50 12.50 1.75 2.10 9.75 8.50

Plug-In Adapters. Turn any 260 or 270 made since 1947 into 8 different testers. 43/x55/16x31/16", 2 11

Stock No.	Type		Description	NET
87 F 554 87 F 555 87 F 556 87 F 557 87 F 558	651 652 653 654 655	Temperature Tester	0-0.25-1-2.5-12.5-25 A; 50-3000 cps.	26.95 32.95 38.95 18.95 18.95 18.95 19.95

269. Ranges: DC current, 0-16-160 μa; 0-1.6-16-160 ma; 0-amps. DC v., 0-1.6-8-40-160-400-1600-4000. AC v., 0-3-8-40-16 output v., 0-3-8-40-160. Ohms, 0-2K-20K-200K; megs, 0-2-2 6x8x3". 100,000 ohms/v. DC. Leads, 1 btry. 6 lbs. 84 F 726.

84 F 742. 0181. 40,000 VDC probe for 269. 2 lbs......NET

267. Ranges: AC and DC v., 0-2.5-10-50-250-500-1000; Di 0-50; DC ma, 0-1-10-100-500; DC amps, 0-10: db, -20 to +5 ranges; output v., 0-2.5-10-50-250; ohms—RX1 (12 ohms ce RX100, RX10K. 6x71/4x31/4". With bat., leads. 31/4 lbs.

87 F 562.... 268. Ranges: AC and DC v., 0-3-12-60-300-600-1200; DC μa, DC ma, 0-1.2-12-120; DC amps, 0-12; db, -12 to +50 in 4 ra output v., 0-3-12-60-300; ohms--RX1 (12 ohms center), R RX10K. With leads, bat. 31/4 lbs.

41/2"-SCALE VTVMs

311. Ranges: AC/DC v., 0-1.5-5-15-50-150-500-1500. Res., 10K-100K ohms and 0-1-10-100-1000 megs. AF v., 0-1.5-5-150-500-1500, 30 cps-100 kc, ±5%. P-P, 0-4-14-40-140-400-4000 v. 7½x55%x4½". For 105-125 v., 50-60 cycle AC. 8 lbs. 87 FX 121.

303. Ranges: AC/DC v., 0-1.2-12-60-300-1200; res., 0-1000ohms, 0-1-10-1000 megs; db, $-20 \text{ to } +63 \text{ in 5 ranges. } 7x5\frac{1}{4}x$ Less RF probe (below). For 110-120 v., 60-cycle AC. 61/2 84 F 712.

84 F 715. 303RT. Above, with roll-top case. 8 lbs. NET 84 F 716. RF Probe. For 303 1 lb. NET 84 F 715. HV Probe. For 303 30 KV. 1 lb. NET

715 AC VTVM (Not Illus.)

Response, 10 cps to 400 kc, ± 1 db. Ranges: AC rms v., 0-0.03-0.1-0.3-1-3-10-30-100-300; db, -52 to +52 in 10 rar $5\frac{1}{2}$ x7 $\frac{7}{2}$ x3". With leads. For 110-125 v., 50-60 cycle AC. 5



A MODEL 466 5" "HANDISCOPE"

rugged, general-purpose oscilloscope. Push amplification for X and Y axes; intensity modulation input taxis. Vert. response, ±1 db, 15 cps-100 kc. 121/x8x61/4". cable. For 110-120 v., 50-60 cycle AC. Shpg. wt., 24 lbs. 87 FU 113. . .

B MODEL 458 7" COLORSCOPE

Top-performance oscilloscope for black-and-white and color Wide-band response, ±1.0 db to 4.5 mc; better than 40 mv per inch sensitivity at 3.58 mc. Narrow-band response, ±2 10 cps to 300 kc; 15 mv rms per inch. 161/2x11x141/2". For 105 50-60 cycle AC. Shpg. wt., 38 lbs. 84 FU 631.

.: NET 249 MODEL 430 COLOR BAR GENERATOR

100% saturated NTSC signals. Exceptionally wide range of puts—includes G-Y at 90°. Positions of master control mar with color of signal. 171/2x14x191/4". With leads. For 105-12t 60-cycle AC. Shpg. wt., 26 lbs. 65FU 129,

MODEL 383A IN-CIRCUIT CAPACOHMETER For paper, mica and ceramic capacitors. Measures leak and capacitance (10.0 mmf to 10.0 mfd). In-circuit. With lea 83/x113/x81/2". For 105-125 v., 60 cycle AC. 12 lbs.

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PERFECT FOR COLOR TV ... All the necessary featureswide sweep, broad response, high sensitivity, cathode-follower inputs.



ODEL 600A TUBE TESTER

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- Tests Over 1900 Tubes
- Line-Voltage Adjust • Illuminated Roll Chart
- Portable Wooden Case

Only

\$3995

\$5 monthly

- 200 Microamp Meter
 Full-Range 0-1.5 Volt
 Large 4 ½" 2-Color Meter

- 1% Multiplier Resistors

MODEL 502 WIDEBAND SCOPE

Only **N9**95

\$6 monthly

- · Push-Pull Amplifiers
- 1-v. P-P Calibrator
- 25 mv/Inch Sensitivity
- 5-Megacycle Bandwidth

ks cathode-emission of over 1900 actrons, nuvistors, novars, 10 pins, d 9-pin miniatures, 4, 5, 6, and 7arge and small types, octals and Is. Also detects opens, shorts and ode-filament leakage. 16 filament ges from 0.63 to 117. 4½" 3-color r.6½x14½x10½". For 110-125 v., 50-60 AC. Shpg. wt., 14 lbs.

X 518-J. \$5 Monthly...ONLY 53.95

X 636-J. In Kit Form...ONLY 39.95

EL 600A FOR BENCH OR COUN-Electronically identical to Model Tube Tester listed above, but deed for stationary use. Supplied with ble, heavy-duty gray metal case. 51/4x141/8x101/8". Shpg. wt., 15 lbs. X 519-J. \$5 Monthly....ONLY 49.95 X 635-J. In Kit Form...ONLY 35.95 A favorite with quality-conscious technicians everywhere, the "504" is your best VTVM value. Has direct-reading db scale, polarity reverse switch, zero-center scale, 11-meg input, and 30 cps to 3 mc response. AC p-p v., 0-4.2-14-42-140-420-1400-4200. AC rms and DC v., 0-1.5-5-15-50-150-500-1500; ohms, 0-1K-10K-100K and 0-1-10-100-1000 megs; db, -10 to +65 in 7 ranges. Complete with battery and leads. 75/8x53/8x41/4". For 110-125 v., 60 cycle AC. Shpg. wt., 7 lbs.

83 Y 504-J. \$5 Monthly....ONLY 39.95

83 Y 125-J. In Kit Form ONLY 26.95

83 Y 126-J. High-Voltage Probe Kit. Extends DC range to 50 kv. 1 1/2 lbs. ONLY 4.50

83 Y 127-J. High-Frequency Probe Kit. Extends AC range to 250 mc.. ONLY 3.50 A 5" scope highly recommended for color TV work and other high-frequency uses. Offers sweep range of 15-600,000 cps. Locks in at frequencies up to 9 mc. Vertical response is ±3 db, 5 cps to 5 mc, down only 1 db at the 3.58 mc color-burst frequency. Has: frequency compensated input attenuator; Z-axis input for intensity modulation; astigmatism control; 1-v. peak-to-peak calibrator; deflection-plate coupling; negative and positive sync; blanking circuit and more. With leads. 141/x101/sx151/2". For 110-125 v., 60 cycle AC. 28 lbs.

83 YU 502-J. \$6 Monthly. ONLY 109.95 83 YU 144-J. In Kit Form. . . ONLY 69.95

83 Y 147-J. Low-Capacity Probe Kit. 3.75

83 Y 148-J. Demodulator Probe Kit. 3.75







MODEL 503 R-C CHECKER

sures both resistance and capacity by accurate bridge method. Checks for ns and shorts in all capacitors, inites PF of electrolytics from 0-50%. ic-Eye shows nulls at a glance. Reads acity from 10 mmf to 1000 mfd, reance from 100 ohms to 5 megs. Tests eakage from 50-450 WVDC. Accuracy, 0%. With leads. 71/x101/8x51/4". For 110-v., 60 cycle AC. 91/4 lbs.

7 503-J. \$5 Monthly....ONLY 29.95 124-J. In Kit Form. ONLY 19.95

MODEL 516 SIGNAL GENERATOR

This low-cost generator boasts a Colpitts oscillator for accurate alignment of RF and IF stages in radio and TV sets. Also has 10-volt 400 cps output for audio work. Provides fundamental output of 0.1 volt or more, in 5 bands, from 160 kc to 112 mc—usable to 224 mc on harmonics. RF oscillator can also be externally modulated. With leads. 7½x10½x5¼". For 110-125 v., 60 cycle AC. 11 lbs.

83 Y 516-J. \$5 Monthly....ONLY 29.95 83 Y 145-J. In Kit Form.....ONLY 19.95

6-12V BATTERY ELIMINATOR

Heavy-duty DC power supply for many uses, including overnight charging of automobile batteries. Has variable output of 0-8 or 0-15 volts DC. Current ratings: continuous—15 amps at 6 v., 10 amps at 12 v.; intermittent-17.5 amps at 6 v., 12.5 amps at 12 v. Meters are calibrated 0-15 VDC and 0-20 amps DC. Fuse-protected. 85/8x12x7 1/2". For 110-125 v., 60 cycle AC. Shpg. wt., 18 lbs.

83 YX 505-J. \$5 Monthly. . ONLY 47.95 83 YX 129-J. In Kit Form.... ONLY 38.95



Test Instruments.

SAVE ENERGY and HOURS OF LABOR T

NEW PORTABLE 3" WIDE-BAND OSCILLOSCOPE

MODEL PS-120. A truly portable lab scope designed to handle any jobeasy to use as a voltmeter. Has just two major controls. Reponse: vertical fier, flat within ½ db from 20 cycles to 5.5 mc; horizontal amplifier, flat with db from 45 cycles to 330 kc—flat within —6 db from 20 cycles to 500 kc. 5 tivity: .035 v. /inch rms—0.1 v. /inch, p-p. Sweep: frequency—4 ranges, 15 c to 150 kc; sync range-15 cycles to 8 mc-usable to 12 mc. Input impeda vertical, 2.7 meg shunted by 99 mmf; horizontal, 330K to 4 meg. With low cap probe. Has steel handle and concealed storage compartment. Size, 9x7x For 105-125 volts, 50-60 cycle AC. Shpg. wt., 12 lbs.

65 FU 063. \$7 Monthly..... NET 12



TC114 TUBE CHECKER

The famous "Mighty Mite" portable tube tester checks almost 2000 tubes-including foreign and 5-star types, nuvistors compactrons, novars and 10-pin types. Checks leakage and cathode emission; offers complete, automatic short tests. Checks rectifiers from 50-150 ma and power-amplifier tubes from 15-35 maothers are checked at their rated current. Grid leakage sensitivity exceeds 100 megohms.

Illuminated meter is protected by currentlimiting circuit. Has socket for testing CRT's. Steel case, 101/4x91/4x31/2". For 110-120 v., 50-60 cycle AC. 9 lbs.

87 F 371. \$5 Monthly NET 73.01

MODEL HG104 MODEL VB2 MODEL FC123

TR110 TRANSISTOR TESTER

For all-around servicing convenience, a versatile tester also serving as a signal tracer, voltmeter, battery tester and milliammeter. Tests transistors in circuit with AC gain check-also tests DC gain and leakage out-of-circuit. Directly reads current gain (beta) and tests diode F/B ratios. Has 0-12 v. scale for battery tests; 0-50 ma scale for current drain—aids in alignment. Mirror in removable cover reflects opposite side of PC boards. With leads, set-up chart and batteries. 8x7 1/8x3". 6 lbs.

83 F 990. \$5 Monthly NET 58.31

SM112 COMBINED VTVM-VC

Two instruments in a compact unit. tures 1% precision resistors, single prod, special scale indicators and ε μa meter. AC-DC volts: 0-3-10-30-10 1000. P-P v.: 0-2800 in 6 ranges. Accu DC ±3%; AC, ±5%. Response (firanges) 30 cps to 4.5 mc. Ohms: V 0-1000 megs in 6 ranges; VOM, 0-1 m 2 ranges, VTVM input imp., 10 megs; sensitivity, 5000 ohms/v. Zero-c scale. With battery, 81/8x71/8x31/2". 105-125 v., 60 cycle AC. Wt., 6 lbs.

87 F 372. \$5 Monthly NET 7

MODEL TRIIS TRANSISTOR-DIODE TESTER

High quality tester. Battery powered, it checks transistors for opens shorts and eakage. Reads current gain (Beta) directly, or as good or bad. Tests diode F/B ratios, and seleniums for forward,

HG104 HARMONIC GENERATOR

Battery powered signal generator for fast signal-tracing of transistor radios. Generates RF, IF and audio signals simultaneously. Traces from speaker to antenna. Puts 1000-cps note through good stages. With battery. 13/4x3/2x41/2". 1 lb.

FC123 TUBE-FILAMENT TESTER

Quick checks in series-string TV sets. Also checks voltages (100-600) and fuse continuity, wiring, etc. 31/4x4x1 1/4". With leads. For 110-120 v., AC-DC. 1 lb.

65 F 092.....NET 3.87

VB2 "VIBRA-DAPTOR"

Adapts any tube tester to checking vibrators. Has sockets for 3 or 4-prong units. 2 lamps show vibrator condition. Sturdy steel case. 33/4x13/4x13/4". 5 oz.

87 F 278..... NET **2.69**

reverse current; lists Japanese eq lents. Charts for critical tests-but ch can be made without them; leads batteries. 4½x5x2½". 2 lbs. 87 F 375. \$5 Menthly......NET 24



HM119 FILAMENT CHECKER A new checker that tests all tubes inc ing the new types, compactrons, ni tors, 10-pin and Novars in series string sets. Also checks fuses, picture tu continuity and voltage. Has on-off sw pin straightener; cord with 2 plugs iron, lamp, etc. 31/4x4x11/4". For 110-12 50-60 cycle AC. Wt., 1 lb.

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ERSATILE UNITS TO SOLVE EVERY PROBLEM

SS117 TV SWEEP CIRCUIT ANALYZER

new circuit analyzer that solves any weep, sync or high-voltage circuit oblem in minutes. Checks black and hite and color from top of chassis ithout removing it from set. Pushuttons simplify testing procedures. nalyzer directly injects horizontal devertical sync pulses, grid and ate drive signals into the output ansformers. Tests flybacks and de-

flection yokes for shorted turns, leakage, opens and continuity. Only one yoke lead disconnected for tests. Roll chart provides data for control settings and interpretations. Has mirror in detachable cover, and 2-AC outlets in storage compartment. 91/4×101/4×31/2". Instruction book and record. For 110-120 v., 60 cycle AC. 10 lbs.

87 F 370. \$5 Monthly..... NET 87.71



DUAL TV BIAS SUPPLY

ODEL BE113. Twin bias supply (for CA and Admiral TV sets) provides bias Itages for RF or IF alignments, finding GC and sync troubles, etc. Output (each) VDC, neg. or pos., less than 0.1% ople. Supplies may be used simultaneously. With leads. Size, 2½x4x4". For 1100 volts, 50-60 cycle AC. 4 lbs.

F 373.....NET 12.49

COMPONENT SUBSTITUTORS

RC 121 COMPONENT SUBSTITUTOR. Switches to select: 12—1-watt resistors, 10 to 5600 ohms; 12—½-watt, 10K to 5.6 megs; 20—20-watt, 2.5 to 15,000 ohms; 10—600 WVDC capacitors, 100 mmfd to 0.5 mfd; 10—450 WVDC dual-section, 2 to 250 mfd; 1 selenium and 1 silicon rectifier, each rated 0.5 amp, 800 PIV. 6x7x3½". Shpg. wt., 5 lbs.

83 F 499. \$5 Monthly......NET 39.15

83 F 984. Model ES102, 10 electrolytics, 4—350 mfd. 21/4x43/4" sq. 2 lbs........15.63

83 F 988. Model RS106. Rectifier portion of RC121. 3 1/2 x 6 1/2 x 7 1/2". 1 1/4 lbs. NET 12.49



SENCORE

Save Time and Money With These Dependable Test Instruments by

HC-6 IN-CIRCUIT CURRENT CHECKER

ermits on-the-spot check of output tube cathode current—indiates whether TV horizontal circuitry is over-loading output tube nd associated components. 5 1/2 x2". Wt., 1 lb.

MODEL 100 TRANSISTOR CHECKER

ynamically tests small-signal drift and power types—in or out f circuit. Checks shorts, opens and gain simultaneously. Size, 1/4x3 1/4x2". With battery. Wt., 1 1/2 lbs.

PS2 BATTERY ELIMINATOR

upplies DC for transistor equipment. Checks receivers up to 2½ v. 1½x4½x5". For 105-125 v., 60 cycle AC. 1½ lbs.

......NET 13.95

510 TRANSMITTER TESTER

or low-power communications equipment. Reads modulation ercentage, RF output. Tests tuning stubs, transmission lines, tc. Audio monitoring, scope connection. 51/4x63/4x21/4". 2 lbs.

7 F 306. \$5 Monthly......NET **46.95**

MODEL 500 TEST SET

or servicing and installing crystal-controlled transmitters and eceivers. Checks all types of crystals, provides RF signal. With 5' cable, batteries. 61/4x31/4x21/4". 11/2 lbs.

7 F 305. \$5 Monthly......NET 29.9

520 ANTENNA TESTER

Diline antenna efficiency tester and in-line RF power meter. Dual cylinder air coupler rated at 1000 w. max—does not insert rror into line up to 160 MC. Direct, easy-to-read scales. 3 watts—anges provided with switching: 0-10, 0-100 and 0-1000 w. Size, 1/4×2 1/4×6 3/4". Shpg. wt., 2 1/2 lbs.

5 F 062. \$5 Monthly......NET 42.95







MILLEN GRID DIP METER

MODEL 90651. A calibrated, stable RF oscillator unit with 2" meter to read grid current. Frequency determining coil is plugged into unit to act as probe. Has 7 direct-reading scales and a 0-100 scale. With coils for 1.7 to 300 mc. 205° calibrated drum dial. 7x33/6x33/6. In handy polypropylene carrying case that holds meter and coil/probes. For 110-120, volts 50-60 cycle AC-has terminals for battery operation. Wt., 31/2 lbs.

65 F 090. \$5 Monthly..... NET 68.85



I.H. 8" TELE-CHECK

MODEL CR-118. Portable CRT substitution unit. Self-focusing. For electrostatic or electromagnetic focusing TV sets with 52°, 66°, 70°, or 90° yokes. Has universal yoke. Adjustments made by use of horizontal and vertical lines on front plate. 12x11 ½x15". With case, leads, face plate and 8XP4CRT. Wt., 12 lbs.

87 FX 297. \$5 Monthly.....NET 44.95

87 FX 193. CR-168. As above, but with 8YP4, 110° univ. yoke............54.50

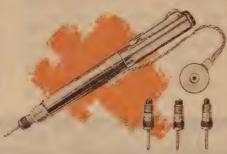
87 FX 198. CR-167. As above, less tube.

87 FX 194. CR-168S. Same as CR-168, plus test speaker. 13 lbs.............64.50

PRECISION SIGNAL TESTER

MODEL 202. Aural-visual tracer. 3-stage preamp has cascode circuit with feedback; additional voltage gain of 400 for scope or VTVM; flat, 2 cps to 300 kc to scope output or "Magic Eye." Noise test with applied breakdown voltage. Wattmeter, 25-300 watts. With audio probe, less RF probe. Size, 7½x10½x6½". Built-in speaker. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 11 lbs.

84 FX 197. \$5 Monthly. NET 58.75 87 F 258. RF Probe. 1 lb......NET 7.35



DON BOSCO STETHOTRACER

A pen size, transistorized self-contained signal tracer. Frequency range, 60 cps to 200 mc; gain, 60 db; distortion, 5% max.; AC v., 1 mv; DC v., 250 v. Only 5 %" long, \%" dia. Uses single 1.5 v. battery. With earphone, cord, plug, 3 interchangeable attenuator probes, RF detector-demodulator crystal diode probe, lead and battery. Shpg. wt., 3 oz.

65 F 018. \$5 Monthly......NET 29.95 65 F 017. Vibrotracer. Detects minute me-

chanical vibrations with stethotracer. Frequency range from 200 cps to ultrasonic.

87 F 470. "Mosquito." Pen-size signal injector. Oscillator provides 1000 cps test tone rich in harmonics for AF and RF.

B&W AUDIO OSCILLATOR

MODEL 210. Furnishes low distortion s nals (on 5 bands) from 10-100,000 cps. H 43/4" dial calibrated over 328°. Excellent 1 testing broadcast station response, his fidelity equipment, etc. Wave form distriction is less than .2% at 5 v. output from 50-20,000 cps. Output imp., 600 ohms be anced. Hum and noise level, 70 db dov at 5 v. With 2-prong adapter. Gray alun num case. 9x6x12". For 110-120 v., 50cycle AC. 11 lbs.

65 FU 091. \$9 Monthly..... NET 165.(

B&W DISTORTION METER

MODEL 410. Measures audio distortio noise level, audio gain or loss in db's ar AC voltages. Ranges: frequency, 20-20,0 cps (harmonics to 100,000 cps); distortio 1%, 3%, 10%, 100%, 600 ohm input in pedance. Voltmeter section has 1 me input and frequency response of 2 200,000 cps. 9x11 ¼". For 110-120 v., 50-cycle AC. Shpg. wt., 11 lbs.

85 FU 003. \$10 Monthly.....NET 189.5

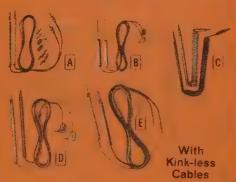


WATERMAN "POCKETSCOPE"

MODEL S-11A, 3" oscilloscope, Horizor tal and vertical sensitivity, 50 mv per majo division; bandpass from DC to beyond 20 kc; sweeps from 3 cps to 50 kc. Uses 3M CRT. 7x5x11". For 105-125 v., 50-400 cycl AC. Shpg. wt., 10 lbs. 87 FU 400. \$8 Monthly....... NET 149.5

87 FU 401. Model S-14A. Offers 5 mv ser

G-C TEST LEADS AND PRODS



A 33-452 Test Lead Kit. 6" prods; phono needle tips; spade lugs, alligator clips and phono tip plug fit banana plug end. 1 red; 1 black. 4 oz.

B 33-464 Long Reach. 50" cables—5" prod, one end; meter plug, other end.

1 red; 1 black. 4 oz.

50 F 697NET PER PAIR 1.23

C 33-470 Stretch. 9" coil extends to 6'. 6"

42 F 358......NET PER PAIR 1.35 © 33-454 Slender Pencil. 5" prods; 50" cable; phone tip. 4 oz.

42 F 356 NET PER PAIR 73c

F AMF PRO-GLO CONTINUITY TEST and opens. Dim light indicates poor cor nection—no light when resistance exceeds 2 ohms. $5\frac{1}{2}$ x $\frac{3}{4}$ " dia. With bulb an standard penlight cell. 2 oz.

78 F 052. G G-C NEO-O-LITE. Neon glow tester Indicates from 60 v. AC and 90 v. DC t 500 v. AC-DC. Finds hot AC leads, check continuity, etc. 5" leads: 3 oz. 78 F 055..... NET 44

ER. Checks continuity, shorts, ground

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KNIGHT PA. .. first choice

for performance and value!

- Your Best P.A. Buy-More Watts Per Dollar
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KNIGHT amplifiers give you more: larger transformers for better response, exclusive impedance selectors simplify speaker hook-up, special circuits to reduce feedback and avoid trumpet burnout. 25-volt output eliminates need for conduit. Look to Knight for the best in value, performance and reliability!

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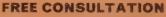
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Send a list of components you need to our Audio Div. We'll review it for proper matching, then rush you a special money-saving system price quotation.



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Professional 50-WATT **Amplifier**





KNIGHT "PROFESSIONAL" HIGH-FIDELITY P.A. AMPLIFIER

Only \$7 Monthly

- 4 Locking, Broadcast-Type Mike Inputs
- · Master Gain, Separate Bass and Treble
- Calibrated Sound-Level Meter
- Output Jack for Direct Tape Recording

A professional-quality 50-watter for use where maximum audio fidelity is required. Highlights include: full mixing of 4 mikes; remote mixing facilities, and sockets for plug-in low-impedance mike transformers (see below); balance controls for output tubes and hum; boost and cut-type tone controls; anti-feedback control; pilot light. Output jack permits simultaneous recording. Aluminum and black. Size, 61/4x171/4x11". U.L. Approved. Made in U.S. For 110-120 v., 60 cycle AC. 29 lbs.

57 DU 005-J. \$7 Monthly..... ONLY 129.50

57 D 010. Plug-in Low-Impedance Transformer. For 50 to 600-ohm mikes. Shpg. wt., 1 lb......ONLY 13.50

57 D 011. 3-Channel Remote Mike Mixer. For KN-3050 only. Operates at up to 100-ft. away. Supplied with 50-ft. cable. 5x2 ½x1". Shpg. wt., 1 ½ lbs.....ONLY 12.75

KN-3050 SPECIFICATIONS

Power: 50 watts (100 watts peak).

Response: ±1 db, 30-20,000 cps (at rated output).

Inputs: 4-Mic; 2-Aux (high-level Phono, Tuner or Tape Recorder); Mag Phono.

Controls: 4-Mic; 2-Aux; Bass; Treble; Master Gain; Anti-Feedback; Local /Remote Mike-Control Adapter switch; Output Tube Balance; Hum Balance; Meter Calibration switch; On-Off.

Hum and Noise: 75 db below rated output.

Input Required for Rated Output: Mic, .006 v.; Aux, .25 v.; Mag Phono, .012 v.

Outputs: 4, 8, 16 ohms; 25 and 70.7 volts; Tape Recording Output.

Tubes: 2-6CA7/EL34; 4-12AX7; 6AV6; 5V3 rect.

Power Consumption: 160 watts at 120 volts, 60 cycle AC.

219



\$5 monthly

57 DX 001-J. \$5 Monthly ...

Our Lowest-Priced Public Address Amplifier

Excellent for High-Quality Coverage in Quiet Areas

Handy "Quick-Change" Output-Impedance Selector

Inverse Feedback Circuit for Lower Distortion

The KN-3210 is an outstanding amplifier value for use in medical clinics, dining rooms, or any area of up to 5000 square feet. Newly designed, it gives you fullfidelity P.A. coverage, at minimum cost, in all low-power applications. Highlights include: "Quick-Change" octal selector plug that lets you instantly choose the output impedance you need; simple 2-screw output terminal for easy speaker connection; a true inverse feedback circuit for a pleasing widerange frequency response plus greatly reduced hum and distortion; a master tone control for easy setting of tonal emphasis on both mike and auxiliary inputs; constant-voltage outputs at both 25 and 70.7 volts; and a convenient pilot light. The compact 5x121/2x101/4" case has black and aluminum finish. For 110-120 volts, 60 cycle AC. Unconditionally guaranteed for one full year. Made in U.S. Shpg. wt., 12 lbs.

KN-3210 SPECIFICATIONS

Power: 10 watts (20 watts peak).

Response: ±2 db, 40-20,000 cps.

Inputs: Mic; 2-Aux (Phono, Tun" er or Tape Recorder).

Controls: Mic; Aux Fader; Master Tone; On-Off.

Gain: Mic, 116 db; Phono, 75 db.

Hum and Noise: 66 db down.

Input Required for Rated Output: Mic, .015 v.; phono, 0.75 v.

Output: 4, 8, 16 ohms; 25 and 70.7 volts.

Tube Complement: 12AX7A; 6L6-GC; 6CA4 rectifier.

10-Watt Systems Featuring the All-New KNIGHT KN-3210 Amplifier



A LOW-COST INDOOR SYSTEM—SAVE \$5.04

Splendid for quiet areas. Offers excellent fidelity. Include: Knight KN-3210 Amplifier; Argos WB-8C Wall Baffi and 8" Speaker; Astatic JT-30 Mike and Stand; 50 Speaker Cable. Baffle comes in blonde or walnut-spe cify. Shpg. wt., 22 lbs.

20 PA 751. \$5 Monthly Specify Finish.....ONLY 44.9

20 PA 752. As above, but with 2 speaker-baffles. System

20 PA 753. Like 20 PA 751 above, but with Knight KN-8 trumpet instead of Argos. Ideal for indoor-outdoor spo coverage in noisy areas. Save \$3.07. Wt., 21 lbs.ONLY 52.9

20 PA 754. As above, but with 2-KN-80's. Save \$3.5" Shpg. wt., 25 lbs. \$5 Monthly.....ONLY 67.9

B PORTABLE SYSTEM—SAVE \$5.77

Our lowest-priced and most compact portable sound sys tem. Combines genuine lightweight design and easy se up with "big sound." Gives full-fidelity audio reinforcement for small combos, sales demonstrations, indoor sport events and other activities. System includes: Knight KN 3210 Amplifier; Combination Baffle-Carrying Case wit Heavy-Duty 8" Speaker; Astatic JT-30 Mike and 8' Corc 50' Speaker Cable. Speaker has "whizzer" cone for en tended treble response. Carrying case holds the entir system, including cable. Allied's system discount give you big savings off catalog prices. Shpg. wt., 28 lbs. 20 PA 755. \$5 Monthly.....ONLY 51.9





\$5 monthly

Outstanding Buy for Medium-Power Applications

- High-Efficiency Circuit for More Watts per Dollar
 "Quick-Change" Plug for Instant Impedance Changes
- Inverse Feedback Circuit for Highest-Fidelity

The new KN-3220 gives you more power, more features and more quality than any other comparably priced P.A. amplifier. The 30-20,000 cps audio response gives crystal-clear coverage in any medium-size area. Sound quality is even further improved by an inverse feedback circuit that assures extremely low hum and distortion levels. Also: noise-free Amphenol 75MCIF mike connectors; handy octal impedance-selector plug; master tone control that operates on both mike and auxiliary inputs; handsome black and aluminum finish. 5x121/x101/4". Unconditionally guaranteed for one year. U.L. Approved. For 110-120 volts, 60 cycle AC. Made in U.S. Shpg. wt., 25 lbs.

57 DU 002-J. \$5 Monthly.....ONLY 41.50 57 DX 006-J. KN-3201 Phono Top for Above. Plays at all 4 speeds. Attaches with a screwdriver. Completely assembled. 4 lbs. \$5 Monthly ONLY 17.95

KN-3220 SPECIFICATIONS

Power: 20 watts (40 watts peak).

Response: ±2 db, 30-20,000 cps.

Inputs: Mic; 2-Aux (Phono, Tuner

or Tape Recorder).

Controls: Mic; Aux Fader; Master

Tone; On-Off.

Gain: Mic, 126 db; Aux, 83 db. Hum and Noise: 75 db down.

Input Required for Rated Output:

Mic, .0065 v.; Aux., 0.45 v.

Output: 4, 8, 16 ohms; 25, 70.7 v.

Tube Complement: 12AX7A; 6AV6; 2—7189; 6CA4 rectifier.

20-Watt Systems Featuring the All-New KNIGHT KN-3220 Amplifier

A PORTABLE SYSTEM—SAVE \$15.31

One of the most versatile P.A. systems we have ever offered. Packs enough power to cover most medium-size areas, indoors or out—light enough to carry anywhere. Our system price gives you big savings over the cost of the components purchased separately. System includes: Knight KN-3220 Amplifier; two Utah 12" Speakers installed in a Carrying Case that separates into two separate baffles; Electro-Voice 727SR Desk Mike with Floor Stand Adapter; Atlas Floor Stand; 2-50' Speaker cables. Mike has a 60-8,000 cps response; includes 10' cord and on-off switch. Set-up is fast and simple, even for those with no technical knowledge. Case accommodates all components. Shpg. wt., 67 lbs. 20 PA 758. \$5 Monthly.....

B TOP-BUY INDOOR SYSTEM—SAVE \$11.30

A fine choice for average-size auditoriums or churches. Big savings off catalog prices, too. Includes: Knight KN-3220 Amplifier; 2—Deluxe Argos Wall Baffles with 8" Speakers; Electro-Voice Model 727SR Desk Mike with Floor Stand Adapter; Atlas Floor Stand; and 2-50' Speaker Cables. Wood baffles come in blonde or walnutspecify. Baffles include hardware for easy mounting. Mike has 5' cord and an on-off switch. Shpg. wt., 44 lbs.

20 PA 756. \$5 Monthly Specify Finish......ONLY 69.95







Proven Performance and Value



NEW KN-3235 GENERAL PURPOSE AMPLIFIER

52⁵⁰

\$5 monthly

- Superior Tone and Sound Quality
- Master Tone Compensation Control
- 25-Volt Output—No Need for Conduit
- Special Anti-Feedback Control

Combining power with versatility, the new model KN-3235 is perfect for music, paging, general coverage under highnoise conditions and a multitude of other uses. Features: Low frequency filter that serves as anti-feedback control—also serves as trumpet-diaphragm protector; instant speaker impedance matching—simply adjust the special selector; inverse feedback for superior audio quality and tone; 25 and 70.7—volt outputs for using up to 70 speakers. 5x151/4x101/4". Styled in black and silver. U.L. Approved. For 110-120 v., 60 cycle AC. Made in U. S. 28 lbs.

57 DU 003-J. \$5 Monthly......ONLY 52.50

KN-3235 SPECIFICATIONS

Power Output: 35 watts (70 watts peak).
Frequency Response: ±2 db, 30 to 20,000 cps.
Inputs: 2—Mic; 2—Aux (Phono, Tuner or Tape).
Controls: 2—Mic; 1—Aux Fader; 1—Master Tone;

Anti-Feedback; On-Off Power Switch.

Gain; Mic, 132 db; Aux, 89 db.

Hum and Noise Level: 70 db below rated output. Input Voltage for Rated Output: Mic, 4.5 milli-

volts; Aux, 0.28 Volts.

Outputs: 4, 8, 16 ohms; 25 and 70.7 volts.

Tubes: 2—12AX7A; 1—6AV6; 2—6L6GC; 1—5AS4. Power Consumption: 110 watts at 120 volts AC.

OPTIONAL PHONO TOP FOR KN-3235

MODEL KN-3201. Plays all 4 speeds manually. Turnover cartridge. Attaches easily with just a screwdriver. 51/2 lbs.

57 DX 006-J.....ONLY 17.95

SQ. FT.

SYSTEM PRICE
Floor
Stand

LR-4
Speaker
\$8 monthly

COVERS UP

to 10,000

Atlas

Desk Stand

COLUMN"

SYSTEMS

SYSTEM PRICE SAVES YOU \$35.26

Carefully selected for maximum performance, this excelent 35-watt system is tailored for average-size auditorium churches or gymnasiums. Consists entirely of big-name components. Overcomes noise levels... provides pleasing high-quality voice and music reproduction to entire audience. Includes: Knight KN-3235 35-Watt Amplifier; E-664 Wide-Range Dynamic Mike; Atlas MS-10C Mike Flood Stand and DS-7 Desk Stand; E-V LR-4 Line Radiator with 50-ft. Speaker Cable. LR-4 speaker gives broad, ever sound coverage in the most difficult installations. Microphone has 40-15,000 cps response. Wt., 67 lbs.

20 PA 761. \$8 monthly.....ONLY 143.9

20 PA 762. Same as above, but with 2—E-V LR-4's for ir creased coverage. 89 lbs. Save \$51.83.....ONLY 195.0

222 ALLIED

Buy Your P.A. on Allied's Credit Fund Plan

35-Watt Quality Systems for Most P.A. Applications



SYSTEM PRICE SAVES YOU \$19.15

DELUXE VERSION OF ABOVE. System plan saves you \$22.44. Consists of: Knight KN-3235 35-Watt Amplifier with Charcoal Carrying Case; E-V 664 Wide-Range Dynamic Mike; Atlas DS-7 Mike Desk Stand; MS-10C Mike Floor Stand; Two 12" Full-Range Coaxial Speakers with 50-ft. Cables and Carrying Case. A carefully balanced audio distribution system—ideal for music or voice reproduction. Amplifier case, 12x16x91/4". Speaker case, 20x16x 133/4". Shpg. wt., 78 lbs.

20 PA 760. \$7 Monthly.....ONLY 132.95



SYSTEM PRICE SAVES YOU \$9.16

Dependable performer for use throughout offices, stores, halls, school recreation rooms, etc. System sets up with a minimum of time and effort. Provides clear voice reproduction for paging and has provision for easy addition of extra speakers and other sound sources—radio, tape recorder or record player—whenever you wish. Includes: Knight KN-3235 35-Watt Amplifier; E-V 729SR Ceramic Mike with Desk Stand; Atlas MS-10C Mike Floor Stand; Two Argos "Thinline" Wall Baffles with Jensen 12" Heavy-Duty Speakers and 50-ft. Cables. Baffles in blonde or walnut finish—specify choice. Wt., 57 lbs.

20 PA 764. \$5 Monthly. Specify Finish....... ONLY 94.50
ALTERNATE SYSTEM. Save \$15.89. You get: Knight KN3235 35-Watt Amplifier; E-V 664 Wide-Range Dynamic
Mike; Atlas DS-7 Desk Stand; 4—Utah 70.7-Volt 8"
Speaker-Baffles. Mahogany or Blonde. Less cable. 73 lbs.
20 PA 765. \$8 Monthly. Specify Finish...... ONLY 159.50

20 PA 766. As above, but with Shure 520SL Paging Mike in place of E-V mike and stand. 63 lbs...... ONLY 129.95



SYSTEM PRICE SAVES YOU \$23.33

20 PA 768. \$9 Monthly.......ONLY 167.50



75-Watt P.A. Equipmen



NEW KN-3275 DELUXE AMPLIFIER

Only

\$5 monthly

- Special Anti-Feedback Control
- 25 Volt Output—No Conduit Needed
- Separate Bass and Treble Controls
- "Quick-Change" Impedance Selector

Newly designed to give you more for your P.A. dollar, we enthusiastically recommend the KN-3275 for use in stadiums, factories and large auditoriums-or anywhere maximum coverage is essential. Highlights: switch that filters out low frequencies to virtually eliminate acoustical feedback, and also guard against trumpet-diaphragm burnout; "quick-change" selector that lets you choose output impedance instantly; inverse feedback circuit for superior audio quality; noise-free Amphenol 75MCIF mike connectors; full-range response. Black and aluminum finish. 5x15 1/2x10 1/2". U.L. Approved. For 110-120 v., 60 cycle AC. Made in U.S. Shpg. wt., 39 lbs.

57 DU 604-J. \$5 Monthly.....ONLY 82.95

KN-3275 SPECIFICATIONS

Power Output: 75 watts (150 watts peak).

Frequency Response: ±2 db, 30-20,000 cps.

Inputs: 2-Mic; 2-Aux (Phono, Tuner or Tape)

Controls: 2-Mic; Aux Fader; Bass; Treble: Anti-

Feedback; On-Off.

Gain: Microphone, 139 db; Aux., 97 db

Hum and Noise: 70 db below rated output.

Input Voltage for Rated Output: Mic, .0028 volts;

Aux- .20 volts.

Outputs: 8, 16 ohms; 25 and 70.7 volts.

Tubes: 2-12AX7A; 6AV6; 2-6CA7; 5AS4A; 5Y3GT.

Power Consumption: 180 watts at 120 v. AC.

4-SPEED PHONO TOP FOR KN-3275



MODEL KN-3201. Plays at 163, 33 1/3, 45 and 78 rpm. Assembledattaches with screwdriver. With

57 DX 006-J..... ONLY 17.95

cartridge. 51/2 lbs.



SYSTEM PRICE SAVES YOU \$10.58

Engineered to give you highest-quality reproduction both voice and music in unusually large or noisy office auditoriums, restaurants and similar applications. Powe packed and ready for easy expansion, there's hardly and door audio job this deluxe system cannot handle

You save \$10.58 over the cost of the components pu chased separately. Includes: Knight KN-3275 75-Wa Amplifier; 6—Argos "Thinline" Wall Baffles with Jense 8" Speakers, 70.7-Volt Line Transformers and L-Pa Volume Controls installed; Astatic 200-S Mike with Star and 8-Ft. Cord. Less speaker cable (facing page). Attra tive baffles come in blonde or walnut finish-speci

Handy screw terminals permit fast speaker hookup; ju hang them on the wall and connect wiring with a scredriver-no soldering. Built-in line transformers end in pedance-matching problems—adding extra speakers easy. L-pads control volume of each speaker individual Mike has on-off switch. Shpg. wt., 72 lbs.

20 PA 769. \$9 Monthly. Specify Finish ... ONLY 174.

224 ALLIED Satisfaction Guaranteed or Your Money Bac

esigned to Meet Every High-Power Application



SYSTEM PRICE SAVES YOU \$46.00

specially selected to provide maximum intelligibility of beech over an extremely wide area, even under high nbient noise levels, indoors or out. Fine for music, tooe dual-horn coaxial speakers have a frequency response om 175 to 10,000 cps.

y purchasing the full system, you save \$46.00 over the ost of the same components purchased separately. Sysm includes: Knight KN-3275 75-Watt Amplifier; 3-E-V odel 848 CDP Projectors; and Astatic 335H Dynamic ike with convenient Swivel-Type Desk Stand. Less beaker cable (see below at right).

he weather proof projectors may be mounted horizontally vertically, for augmented sound dispersion. Feature rtually indestructible spun fiberglas construction. Deixe gray and chrome mike has a 60-12,000 cps response; cludes an on-off switch; desk stand; lavalier cord for pel use; a 5/2"-27 threaded adapter for a conventional floor land; and an 8-ft. cable. Speakers have a mesa tan finish. hpg. wt., 87 lbs. ONLY 199.50 PA 770. \$10 Monthly. ONLY 199.50

75-WATT WIDE-ANGLE SYSTEM



SYSTEM PRICE SAVES YOU \$25.68

Excellent for P.A. applications where deep sound penetration with a narrow distribution angle is required, or for paging where extremely high noise levels must be overridden. Drivers are hermetically sealed for indoor or outdoor use in any climate. Allied's system price saves you \$25.68 off regular catalog prices. Includes: Knight KN-3275 Amplifier; 3—University Model PH Trumpets with ID-30 Drivers; and Shure 520SL Mike on Desk Stand. Less speaker cable, below. Trumpets have 85° dispersion angles to assure maximum sound intensity along their axes; frequency response is 150 to 7500 cps. "Dispatcher" mike has grip-to-talk, slide-to-lock bar and a 7-ft. cable. Shpg. wt., 94 lbs.

20 PA 771. \$10 Monthly.....ONLY 199.50

ALTERNATE SYSTEM. Save \$41.12. As above, but with Electro-Voice AR-150 trumpets and DC30A drivers in place of University components. Response is 150-10,000 cps. 92 lbs.

20 PA 772. \$10 Monthly.....ONLY 182.95

INDOOR AND OUTDOOR SPEAKER CABLE

No. 18 stranded copper wire except *No. 20. POSJ and 8204 have rubber jackets; all others have vinyl jacket coverings. Shpg. wt., 3 lbs./100 ft.

Mfr's	25-ft. C	oil	100-ft. Coil		Over 100'	
Type	Stk. No.	NET	Stk. No.	NET	Stk. No.	PER 100
POSJ POSJ POT	48 T 761 48 T 771 48 T 781 48 T 765	73c 73c 73c 63c	48 T 760 48 T 770 48 T 782 48 T 764	2.70 2.70 2.70 2.70 2.33	48 W 763 48 W 773 48 W 783 48 W 766	2.70 2.70 2.70 2.33
POT POT 8205* 8204	48 T 768 48 T 784 47 T 861 47 T 649	63c 63c \$1c 1.25	48 T 769 48 T 765 47 T 860 47 T 639	2.33 2.33 2.45 3.67	48 W 767 48 W 786 47 W 862 47 W 641	2.33 2.33 2.45 3.67



Great for Boat Hailir Marine Patrol Activitie Ship-Board Entertainme



Ideal for Sound Truck Civil Defense Units, Fi and Police Vehicles



ALL-TRANSISTOR

Mobile Public Address Amplifier

Only **\$69**95 \$5 monthly

- Operates From Any 12-Volt Source
- Only ¼-Amp Idling Current Drain
- Extremely Compact and Lightweight
- Ideal for Autos, Sound Trucks, Boats

A triumph of skillful engineering, the new, ultra-modern Knight KN-3230M All-Transistor Mobile Amplifier provides a full 30 watts of audio power everywhere you go. Operates from any 12 volt DC source-its power cord plugs into cigarette lighter receptacles. Occupies very little spaceideal for autos, trucks, buses, boats, etc. Highly efficient transistor circuit has extremely low battery drain—idling current of only ¼ amp is less than that used by a car's parking lights. At full rated power, uses only 4.5 amps. Lightweight, it sets up in moments-perfect for use in parks, playgrounds, picnic areas, advertising campaigns and sales demonstrations. Size, 3½x10¾x6″. Black cabinet, aluminum finish panel. Made in U.S. 11 lbs. 57 DX 007-J. \$5 Monthly.....ONLY 69.95

57 DX 008. AC Power Supply. Converts KN-3230M for use on 110-125 v., 50-60 cycle AC. Wt., 22 lbs.... ONLY 39.50

-SPECIFICATIONS-

Frequency Response: ±3 db, 100 to 10,000 cps.

Hum and Noise: 67 db down. Inputs: 1-Mic, 1-Phono.

Controls: Mike Volume, Phono Volume, Master

Tone, Off-On and Trumpet Protector Switch.

Impedances: 4, 8 and 16 ohms. Current Drain: 4.5 Amps at full power; 1/4 amp idling

OPTIONAL PHONO-TOP FOR KN-3230M



Takes records to 12"; 331/3, 45 and 78 rpm speeds. Ceramic flip-over cartridge with sapphire needles. Powered by amplifier; includes cables, plugs, Easy to install. 6 lbs.

57 DX 009-J ONLY 32.40

HIGH-QUALITY MOBILE SYSTE

K S

CHONO

& KNIGHT



SYSTEM PRICE SAVES YOU \$11.31

Get top-notch mobile performance and reliable sound cov erage with this great system. It's the perfect set-up fo political campaigning, outdoor rallies, advertising and an outdoor activity. Operates from 12 VDC in cars, trucks o boats. System includes: Knight KN-3230M All-Transisto 30-Watt Mobile Amplifier; Shure 404B Controlled Mag netic Microphone and Cable; Electro-Voice 844 Paging Speaker with 25 Feet of Cable. Shure's microphone is ideally suited for outdoor P.A. work—combines rugged construction with excellent speech intelligibility. Has push to-talk switch. E-V's 844 speaker will handle 30 watts o material with good response; aluminum horn. 21 lbs. 20 PA 773. \$5 Monthly.....ONLY 99.56

OPTIONAL SYSTEM. SAVE \$16.32! As above, but with \$ E-V 844 Paging Speakers, for increased coverage. 29 lbs 20 PA 775. \$6 Monthly.....ONLY 115.99

ALTERNATE SYSTEM. SAVE \$31.42! As above, but with 2 E-V 848 Projectors. Weather-proofed fiberglas. 43 lbs 20 PA 774. \$8 Monthly.....ONLY 154.95

Knight Amplifiers Are Unconditionally Guaranteed for One Year

VP20 TRANSCRIPTION PLAYER

Includes B50 hi-fi player and 20-watt P.A. system in a single carrying case. "Break-apart" design—one side of case has amplifler/player; other has one 12" heavyduty speaker and 25-ft. cable. See other features below, right. 16½x15¾x12¼". For 117 v., 60 cycle AC. 40 lbs.

57 SU 344. \$8 Monthly.....NET 140.90

VP40 TRANSCRIPTION PLAYER

Features B50 hi-fi player with a 40-watt P.A. system. Player and amplifier are housed in one case, 181/4x161/2x81/2"; two heavy-duty 12" speakers with 25-ft. cables are in a matching case, 16x15\%x11\%". For 117 v., 60 cycle AC. 55 lbs. 57 SX 343-2. \$11 Monthly, NET 204.95

SCC-12 SPEAKER CASE. For use with VP20 or VP40 players. Includes two 12" speakers with 25-ft. cables in "Breakapart" case. Forms two separate speaker units. Gray and black vinyl fabric covered. Size, 16x15 3/4x11 1/2". Wt., 18 lbs. 57 SX 342. \$5 Monthly.......NET 54.90

NEW VP10 RECORD PLAYER

Budget-priced 10-watt portable phonograph amplifier perfect for schoolroom or dance class. Uses B41 4-speed player for up to 12" discs. 16, 33, 45 and 78-rpm speed is 5% adjustable. Amplifier has high-impedance mike input; separate bass and treble controls; mike and phono level controls. 12" speaker with 25-ft. cable mounted in cover. Black and gray. 15 ½x14x11 ½". For 117 v., 60 cycle AC. 26 lbs. 57 SU 345. \$5 Monthly....... NET 96.90



FEATURES OF THE VP20/VP40 SERIES PLAYERS

HI-FI PLAYER. Less than .5% wow and flutter; takes up to 16" discs; 4-pole shielded motor; G.E. magnetic cartridge; arm pressure adjust.

VARIABLE SPEED. From 29 to 85 rpm; click-stop positions for 16, 33, 45 and 78-rpm on control.

AUTOMATIC CUEING. Lever for raising or lowering arm at any point on record.

AMPLIFIER RESPONSE. ±11/2 db from 50 to 15,000 cps.

INPUTS. Phono (internal connection), Tuner (or Tape Recorder), 2 High Impedance Microphones.

CONTROLS. Master Power, Bass, Treble, Scratch Filter, Volume Input 2, Volume Mic Input, Input 2 Selector, Speech Filter (VP40)

CASE FINISH. Gray and black.



Sturdy "Challenger" P. A. Amplifiers and Useful Accessories

CHB10 10-WATT AMPLIFIER

Small, economy-priced amplifier features 10-watt output; inputs for phono and microphone; treble tone control; usable for wired music service. Response: 40-12,000 cps, ±2 db. Gain: Mic, 110 db; Phono, 90 db. Hum and Noise: -75 db. Output Impedance: 4, 8, 16 ohms; 25-volt line. 3 tubes. Gray. 33/4x11 1/4x8 1/2". U.L. Approved.

WMT1 WIRED MUSIC TRANSFORMER. For CHB10 when using Wired Music Service. Gain: .1 v., across 600 ohm line. Response: 50-20,000 cps. Adaptable to other Challenger amplifiers. 8 oz

57 S 354. List, \$15.65.....NET 9.40

CHB14 14-WATT AMPLIFIER. Inputs: 1 Mic; 2 Phono with fader. 4, 8, 16 ohm, 25volt outputs. 3 tubes, rectifier. For 105-125 v., 50-60 cycle AC. 15 lbs.

57 SX 355. List, \$75.00......NET 45.00

LPC-4 PHONO ATTACHMENT 4-speed, 16, 33, 45, 78 rpm. Fits CHB-14, 35, 50, 100 models. With brackets and hardware. 5x13x9 1/2". 8 lbs. 57 SX 352. List, \$37.75......NET 22.65 RP100BM MONOPHONIC RECEIV

A 15-watt amplifier, control center, and FM-AM tuner combination—all on a single chassis. Excellent for background music in offices, restaurants, medical waiting rooms, etc. Amplifier response is ±1 db, 20-20,000 cps. FM section has a sensitivity of .5 uv for 30 db quieting at 75 ohm input. Has built-in FM antenna. Tunes AM from 530-1640 kc. Can be used with record player, tape recorder, or mike. Has 25-v. output. 4%x15x12½". Less case. For 110-120 v., 50-60 cycle AC. 21 lbs.

57 SX 349. \$10 Monthly....NET 186.60

57 SX 350. Metal Case. 6 lbs..NET 11.95

57 SX 351. Walnut Case. 7 lbs.NET 24.75

CHB100 100-WATT AMPLIFIER

Powerful, ruggedly designed for the most exacting high-level applications. Gives a usable output of 100 watts. Employs negative voltage feedback for better response, lower distortion, and superb regulation. Same inputs and outputs as CHB35 above. Identical characteristics except: Phono Gain, 100 db and Magnetic Gain, 115 db. Uses 7 tubes and silicon rectifier. Gray. 63/x153/x63/". U.L. Approved: For 105-125 v., 50-60 cycle AC. 26 lbs. 57 SX 348. List, \$187.40 NET 112.45

Excellent value for all medium power P.A. applications. Has 2 mike inputs with individual controls; 2 phono inputs with fader; separate bass and treble controls; master volume control. Magnetic phono can be used in Mic 2 input. Response: 20-20,000 cps, ±2 db. Gain: Mic, 120 db, Phono, 85 db, Magnetic, 100 db. Hum and Noise: -80 db. Output Impedance: 4, 8, 16 ohms; 25 and 70-volt line. 5 tubes; 6CA4 rectifier. Gray. 63/4x153/4x10". U.L. Approved. For operation from 105-125 v., 50-60 cycle AC. Wt., 18 lbs. 57 SX 346. List, \$119.90.....NET 71.95

CHB50 50-WATT AMPLIFIER

A fine choice for a wide variety of P.A. applications-requiring great area coverage. Offers the same styling and design features as the CHB35 above, except Gain is 95 db, Magnetic, 110 db. 5 tubes and 1 silicon rectifier. Gray. 63/x153/x10" U.L. Approved. For 105-125 v., 50-60 cycle AC. 21 lbs. has increased power and gain. Phono

57 SX 347. List, \$137.40.....NET 82.45

Get Your P.A. Gear for No Money Down . . . Use Allied's Credit Fund



MODEL MXM MIXER-PREAMP

For use in critical P.A. applications, or professional-quality recording on location. Unit includes five independently controlled mike inputs-one converts for use as a phono or tuner input. An accurate level meter permits continuous monitoring of the combined output of all channels in use. Built-in sockets accept plug-in low impedance transformers. Output is high impedance, but may be easily converted to low impedance with T-165B 600-ohm transformer, below, for remote broadcast or recording work. Also includes Hi-Z output for connection to supplementary booster amplifiers. Portable—handy carrying strap is mounted on side.

Among its numerous features are individual speech filters for each channel; variable level markers; and feedback-type, distortion-free tone controls. Output: +18 dbm at less than 1% distortion. Controls: 5—Gain; 4—Speech Filter; Mike-Tuner-Phono; Bass; Treble; Off-On-Master Gain. Circuit contains eight tubes, plus 6X4 rectifier. Frequency Response: ±2 db, 20-20,000 cps. Hum: -60 db. 5%x16½x13". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.

57 SU 310. List, \$246.25 NET 147.75

MODEL T-165B OUTPUT TRANSFORM-ER. Converts output impedance of MXM preamp above, to the 600-ohm broadcast standard. Quickly plugs into chassis socket. Shpg. wt., 1 lb.

57 S 333. List, \$20.00 NET 12.00

30-WATT AMPLIFIERS

Both units feature constant-voltage outputs; equalized phono input; separate bass and treble controls; Cannon XL connectors; variable level markers; etc. Response: ±2 db, 35-20,000 cps. *Output:* 30 watts at under 2% distortion. *Imp.:* 4, 8, 16 and 163 ohms; balanced 25-volt line, 70-volt line. Power consumption: 150 watts. For 110-120 v., 50-60 cycle AC.

MODEL M330. (Not illus.) Economy-priced. Hum: mike, 60 db below rated output, Includes three mike channels (one converts to phono); 6 tubes, GZ34 rectifier. 5 1/8 x 14 1/2 x 13", 29 lbs.

57 SU 309. List, \$193.75. NET 116.25

MODEL MX30 DELUXE. For ultimate performance. Hum: microphone, 60 db below rated output. Includes four microphone channels (one converts to phono); Master gain control; is also wired for optional remote control accessory (see table, below). 7 tubes, GZ34 rectifier. Size, 5%x161/4x13". Shpg. wt., 31 lbs. 57 SU 307. List, \$231.25. NET 138.75

60-WATT AMPLIFIERS

For P.A. applications requiring great coverage. Include all features of the 30amplifiers at left—constant-voltage ou taps; separate bass and treble cont Cannon connectors; equalized phono in for all cartridges; plug-in sockets for impedance transformers; pencil-in, er out identification strips for all chann same response and hum specifications: Output: 60 watts at less than 1% distort Output Impedances: 4, 8, 16 and 83 of balanced 25-volt line. 70-volt line. Size, 161/4x13". For 110-120 v., 50-60 cycle Shpg. wt., each, 37 lbs.

MODEL M60. Three mike channels (converts to phono); speech filters; 6 tube 3—GZ34 rectifiers.

57 SU 308. List, \$236.25. NET 141

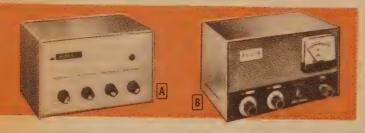
MODEL MX60 DELUXE, Four mike change (one converts to phono); Master gain of trol; wired for optional remote control cessory (see table, below); 7 tubes, 3—G rectifiers

57 SU 306. List, \$295.00. NET 177.

25-WATT TRANSISTORIZED MOBILE P.A. AMPLIFIER

MODEL BT-25. Hum-free, all-transistor amplifier, with the power and facilities for a wide variety of mobile applications. Provides 25-watt output from a 12-volt battery, or 6 watts from a 6-volt battery. Small enough to fit in the glove compartment of an auto, it has inputs for mike and aux.-record player, tuner or tape deck.

Response: (optimized for best intelligibil 400-6000 cps. Gain: 103 db. Distorti below 10% at full output. Controls: m gain; aux. gain; on-off; 6-12 volt selec Impedance: 2-4, 8 or 16 ohms, Inputs individually controllable. Hand-wir 65%"x43%"x33%". 5 lbs. 57 S 332. List, \$120.00.......NET 72.



LOW-COST P.A. PREAMPLIFIERS

A MODEL MX6-A. Mixes any combination of 4 of its 6 inputs which include 4 high-impedance mike inputs, and 2 tunerphono inputs. Features a gain control for each input channel, and a cathode-follower output. 51/2x8x43/4". For 110-120 volts, 60

B MODEL RP-2. For use at remote pickup points. Has separate input channels for mike and phono with volume controls for mixing. 51/x11x73/8". Less cage, below. For 110-120 v., 60 cycle AC.

57 SX 312. Cage and VU Meter for RP-2. 2 lbs......NET 23.25



POWER BOOSTERS

P.A. booster-amplifiers use where high-power w low distortion is required. input of 2 volts drives any the units to full output. I sponse is 50-20,000 cps below 2% distortion.

Stock No.		Watts	Size, HWD	Wt., Lbs.	List	NE
57 SU 313	MO-60	30	73/4x171/4x61/2"	21	\$124.90	74.
57 SU 314		60	73/4x171/4x61/2"	23	172.50	103.
57 SU 316		100	73/4x171/4x9"	35	215.75	129.

ACCESSORIES FOR BOGEN P.A. COMPONENTS

		Model		Lbs.	List	i NE
		2	Control-Guard Locking Plate for MX60, MX30, M60, MXM; includes two keys.	2	\$13.75	8.
57 SX 57 S	339 340	RPK-4 SR-4	Rack Panel Mtg. Kit for above. 19x7°. Four-Channel Remote Control.	8	21.90	13.
575	336	1-155	200-ohm mike transformer for Flav-Pake	ì	15.65	9.
57 S	334 335	T-156	As above, but 500 ohms. As above, but 50 ohms.	1	21.25	12.



Get More for Your Money With Top-Quality KNIGHT Microphones

/ALUE-PACKED DYNAMIC MIKE

Only

- Plugs Into 90% of All **Tape Recorders**
- 60-12,000 Cps Range
- With Desk Stand

NODEL KN-4500. An unexcelled microhone value. Includes matching desk stand rith base, 10-ft. cord, and a screw-type conector and phone plug already attached. ou can instantly connect it to 90% of all ape recorders. Has 5/8"-27 threading to mate vith any mike floor stand.

The all-directional pick-up pattern and proad 60-12,000 cps response of the KN-4500 nake it splendid for home recording, public iddress, etc. The moving-coil dynamic elenent is virtually indestructible and immune o climatic variations, as well as humidity.

las high-impedance output of -55 db. Styled in gold and black. Mike is $7\frac{1}{2}\times1\frac{1}{6}$; die-cast base has $5\frac{1}{6}$ dia. Made in U.S. Shpg. wt., 4 lbs.

17 S 220. \$5 Monthly ONLY 22.95

CARDIOID DYNAMIC MIKE

Only

- \$5 monthly
- Super-Cardioid Pattern
- Dual-Output Impedance
- 50-13,000 Cps Range
- Dynamic Element

MODEL KN-4550. A professional-quality dynamic microphone with a cardioid pick-up pattern. High directivity plus a "peak-free" response make this a superb P.A. mikesharply reduces feedback and unwanted audience-noise pick-up.

Two separately tuned chambers assure a smooth 50-13,000 cps response and consistently excellent directivity-provide marvelous clarity of tone. Tough acoustalloy diaphragm withstands extremes of heat, cold and humidity.

5/8"-27 threading fits all floor and desk stands. Output, --56 db. Has satin-chrome cast case with on-off switch. 71/4x1 1/8". Wired for high-impedance; easily changed to low impedance. Less connector. Made in U.S. Shpg. wt., 2 lbs.

57 S 182. \$5 Monthly.....ONLY 34.50

NEW LOWEST-COST KNIGHT CRYSTAL MIKE

High-quality at rock-bottom cost. Has shock-mounted crystal element; exceptionally high output of -45 db; 60-8500 cps response; tough plastic case. 211/6x27/6x1". With 5' cable. Less connector. 1 lb.



57 S 417.....BOTH FOR ONLY 9.50

SPECIFICATIONS Response: 50 to 11,000 Cps.

Output: -56 db; High-impedance. Coverage Pattern: All-directional. Pick-up Element: Ceramic.

Cable: 7' shielded with phone plug.

Styling: Brushed chrome with gold-finished wire grille.

ECONOMICAL CERAMIC MIKE

MODEL KN-4510. Newly designed to give

you a budget-priced microphone well-suited

for a wide variety of uses. Small and light-weight, it can be hand-held or used on a

stand (optional, below). Excellent for home

recording, lecturers and paging. Ceramic

element is unaffected by temperature and

humidity extremes. 51/x13/6". With 7' cable and phone plug. Made in U.S. Shpg. wt.,

57 S 275.....ONLY 7.95

57 S 276. Swivel-Mount Base. For above.

Shpg. wt., 2 lbs.....ONLY 2.55

SPECIAL OFFER, KN-4510 With Base.

Versatile—Many Uses

• 50-11,000 Cps Range

• 7' Cable and Plug

For Hand or Stand Use

Only

\$795

Less Stand

2 lbs.

World-Famous Microphones by TURNER

MODEL 708. A new, deluxe crystal microphone especially designed for tape recording. Neatly fits in your hand or atop table or desk. Has a wide 60-10,000 cps response for lifelike tapes. Output level is -54 db. Diecast case has an attractive satin-chrome finish. With 6-ft. cable, phono plug and phone-plug adapter. Shpg. wt., 1 lb. 57 S 293. List, \$12.50.....NET 7.35

MODEL 58. A dynamic, lavalier mike for

use where freedom and mobility are vital. Only 4" long and weighing just 31/2 oz., it may be hidden behind necktie or corsage. Response is 60-13,000 cps. Impedance is switchable from 150 ohms to high-impedance. Output (hi-Z) is -60 db. Essentially non-directional. Non-reflecting gray finish. With lavalier assembly and 25-ft. cord. Shpg.

57 S 294. List, \$57.00......NET 33.52

MODEL 350C. Push-to-talk ceramic mike for mobile use. 80-7000 cps. Output, -54 db. High-impedance. With coiled cord that extends to 5'; hangar button; dash bracket. Relay-wired. Plastic case is 31/2×27/16×2".

Shpg. wt., 1 lb. 57 \$ 155. List, \$16.80......NET 9.88

57 S 291. MODEL 355C. Above, but has lever bar switch. Output, --50 db. NET 7.35

MODEL 254C. Perfect for CB base stations. Has both touch-bar and Lever-Lock on-off switches. Same specs as 350C above. 7-ft. cable. Shpg. wt., 2½ lbs. 57 \$ 165. List, \$23.50......NET 14.10

57 S 292. MODEL P254C. As above, plus push-to-talk button......NET 15.29

57 S 119. MODEL 250. Like 254C, but dynamic-type, and with lift-to-talk feature. 60-10,000 cps. 20' cable NET 29.11

7 Ways Easier—7 Ways Better—Allied's Credit Fund Plan





MODEL 664 VARIABLE "D." This skillfully designed, ruggedly constructed mike is a superb performer. Picks up from front only-provides high front-to-back discrimination against unwanted sounds, without close-talking boominess-variable distance construction produces cardioid pat-

Provides natural reproduction of voice and music-increases working distance from microphone-provides greater protection against feedback problems. Equipped with "pop-proof" wire mesh grille to minimize wind and breath blasts.

Response from 40 to 15,000 cycles. Output -55 db. 150-ohm and high-impedance output. Supplied wired for hi-Z. \%"-27 thread. Cast zinc case, finished in chrome. With on-off switch; detachable, 18-ft. 2conductor cable. Dia., 11/6"; 73/16" long. Shpg. wt., 2 lbs.
57 S 241. List, \$85.00......NET 49.98

MODEL 664G. As above, but gold finished. **57 S 261.** List, \$90.00......NET **52.92**

MATCHED MIKES. Two chromed 664's for stereo recording. Factory matched at no extra cost. 4 lbs. 57 S 262 NET PER PAIR 99.96

MODEL 644. A highly directional dynamic that lets you stand 4 times as far away as you would with ordinary mikes. Combination cardioid and distributed-front opening give greatly extended frontal pickup. Above 700 cps, sound rejection at sides and rear is 20 to 25 db. Reduces reverberation and feedback near the vanishing point, and lessens wind noise and mechanical shock. Output, -53 db. 150-ohm or high-impedance selected by changing MC4M connector. On-off switch. Die-cast satin-chromed case with 3/4" aluminum tube. Dia., 25/16"; 16" long. 5/8"-27 thread. 18-ft. 2-cond. shielded cable. Shpg. wt.,

57 S 121. List, \$110.00.....NET 64.68

MODEL 630. Popular dynamic mike for dispatching, tape recording and general usage. Has non-directional pattern becoming directional at high frequencies. May be mounted on floor or desk stand and tilted through 90° arc toward sound source, or hand-held. "Acoustalloy" diaphragm has 60-11,000 cps response. Output; -55 db. 150-ohm unit has 18-ft. 2-cond. shielded cable; hi-Z unit has 1-cond. cable. On-off switch. Chrome-plated. 61/4x2". 5/6"-27 thread. 2 lbs.

57 S 227. 150-Ohm Impedance.

57 S 226. High-Impedance. List Each, \$52.50.....NET EACH 30.87

MODEL 636 "SLIMAIR." For P.A. use an tape recording of individual and grou performers. Wire mesh blast-filter. 9 swivel. 60-13,000 cps. 150-ohm or high in pedance (supplied wired for hi-Z). Output -58 db. Chrome-plated steel case. 13 dia., 101/4" long. 5/8"-27 thread. On-c switch. With detachable, 18-ft. 2-con cable. 2 lbs.

57 S 244. List, \$72.50 NET 42.6

MATCHED MIKES. Two Model 636's for stereo recording. 4 lbs. 57 S 263 NET PER PAIR 85.26

MODEL 623. 60-12,000 cps. -50 db. 15 ohm or high-impedance output (supplie

NEW MODEL 647A. Small, all-directions lavalier mike—great wherever concea ment, mobility or free use of hands is de sired. Weighs only 2 oz. 60-12,000 cp Output, -58 db. 150-ohm or high-imped ance output (supplied wired for hi-Z). T gray. 21/x3/". With neck cord. 18-ft. cond. cable. 1 lb.

57 S 264. List, \$82.50...... NET 48.5

ELECTRO-VOICE MICROPHONE ACCESSORIES



MODEL 419 DESK STAND. For use with

57 S 197. Model 418 Desk Stand. Similar to above, but for 951, 636, 630 and 623 mikes. 4 lbs. List, \$10.00......NET 5.88

MODEL 420 DESK STAND. For mounting 666, 655C, 654A and 647A mikes. 41bs.

57 S 196. List, \$20.00 NET 11.76

MODEL 428 TOUCH-TO-TALK STAND. Touch-bar on stem actuates SPDT switch. Locking button. %"-27 thrd. 2 lbs. 57 S 195. List, \$17.50......NET 10.29

MODEL 300 CLAMP. Illus. with 420. Fits mikes with 1" case dia. ½-in. thread with adapter for %"-27 stands. 4 oz. 57 \$ 258. List, \$10.00..........NET 5.88

MODEL 513 HIGH PASS FILTER. Rejects unwanted noises below 100 cps. Switched 50, 150, 250 ohm impedances. On-Off switch. 5 1/8 x2 1/4". Wt., 2 lbs.

57 S 260. List, \$70.00 NET 41.16

MODEL 502A MATCHING TRANS-FORMER. Not illus. For connecting long-line, low-Z mikes to hi-Z. Connector, 2-ft.

57 S 210. List, \$17.50......NET 10.29

Allied Can Supply Any E-V Mike on Special Orde

Low-Cost Crystal and Ceramic General-Purpose Microphones







Microphones for Mobile Applications





ODEL 951 CRYSTAL. Uses variable " principle to achieve cardioid direcvity and uniform frequency response. oasts wide-range reproduction and poproof wire mesh grille to minimize wind nd breath noises. Uniform polar response nakes it highly suitable for noisy locaons, or where much echo is present. 3-11,000 cps. Output, -60 db. TV-gray, ie-cast case. 13/4×53/8". 18-ft. 1-cond. nielded cable. Wt., 11/2 lbs. 7 S 218. List, \$54.50..........NET 32.05

IODEL 715 "CENTURY" CERAMIC. leal for home recordings, paging, etc. esists extremes of temperature and hunidity. All-directional. 60-7000 cps. Outut, -55 db. High-impedance. 3x23/16x1". 27-27 adapter. 5-ft. cable. 1 lb.

7 S 245. List, \$13.00 NET 7.65

NODEL 715-S. As above, but with push-talk switch; has "lock-on" position. 7 S 176. List, \$15.00..........NET 8.82

NODEL 415 DESK STAND. For "Cenury" mikes, above. 15° tilt. Satin chrome

nish. Shpg. wt., 6 oz. 7 S 194. List, \$1.75.....NET 1.03

MODEL 911 CRYSTAL. For low-cost P.A. applications, tape recording. Amateur use, etc. All-directional pickup pattern becomes slightly directional at higher frequencies. 50 to 9000 cps. Output, -50 db. High-impedance. Chrome-plated. 2%x3 1/8 x63/11 long. Upright swivel mounting; Off-On switch. %"-27 thread. 18-ft. cable. Shpg. wt., 2½ lbs.
57 S 242. List, \$32.50......NET 19.11

MODEL 602 DIFFERENTIAL DYNAMIC. For 2-way radio, mobile P.A. and other uses where noise cancellation and higharticulation for maximum intelligibility are vital. Press-to-talk DPDT switch controls mike and relay. Response, 100 to 7,000 cps. Output, -55 db at ¼". High-impedance. 6-ft. coiled cord. Black phenolic case. With mtg. bracket. 2½x2x4". Shpg. wt., 10 oz.

57 S 174. List, \$57.50.....NET 33.81

MODEL 600E DYNAMIC-LOW-Z. Similar to Model 602 above, but not differential. Impedance, 250 ohms. 10 oz.

57 S 268. List, \$47.50.....NET 27.93

57 S 267. Model 600E Dynamic-High-Z. As above, but high-impedance. NET 27.93

MODEL 729 CERAMIC MICROPHONE



Exceptionally low-priced cardioid mike. Response, 60-8000 cps. Output, -60 db. High-impedance. Gray diecast front, plastic back. With desk stand, floor stand adapter, 10-ft. cable. 11/16×7 1/8". Wt., 1 lb.

57 S 173. List, \$24.50.... NET 14.41

57 S 181. Model 729SR. As above, with On-Off switch. List, \$26.50......15.58

MODEL 727 CERAMIC. Similar to Model 729, but all-directional. With desk stand, plus floor stand adapter. Output level, -55 db. 7½x1½x1½". 5-ft. cable. 1½ lbs. 57 **S 175.** List, \$18.00....**NET 10.58**

57 S 257. Model 727SR. As above, with On-Off switch. List, \$20.00 11.76

MODEL 205KK-DIFFERENTIAL CAR-BON. Articulation 97% under quiet conditions; 88% under 115 db ambient noise. Blast-proof; shock-resistant. -50 db at \(\frac{1}{4}''. 100-4000 cps. DPDT press-to-talk switch. 6-ft. cord. 2\(\frac{1}{4}\)x2\(\frac{1}{4}\)x4". Mtg. bracket. 1 lb. 57 S 246. List, \$45.00 NET 26.46

NEW MODEL 714S CERAMIC. Designed especially for mobile communications, paging, Ham radio and citizens band use. Response, 60-7000 cps. Output, -55 db. Case of "Cycolac" plastic for maximum durability. DPST push-button switch. 2½x 1½x3½". With 10" coiled cable; hang-up button and bracket. Wt., 1 lb. 57 S 167. List, \$16.50.....NET 9.70

ALLIED 231

Selected Broadcasting-Quality Dynamic Microphones

MODEL 649B. Only 3x2½"; 1½ oz. 60-10,000 cps. —60 db. 0-250 ohms. 30-ft. 2-cond. cable. 1 lb. NET 61.74

MODEL 666. Superior mike with variable "D" design, cardioid pattern. 30 to 16,000 cps. -58 db; adjusts to 50, 50, 250 ohms. $1\frac{1}{4}$ x7 $\frac{1}{2}$ ". With adapter for $\frac{1}{2}$ " and $\frac{5}{8}$ "-27 stands. 20-ft. 3-cond. cable. 1 lb.

i7 S 249. List, \$255.00......NET 149.94

i7 S 240. Model 665. Similar to above, but 50-14,000 cps.

MODEL 655C. Deluxe "Slim-Trim" all-directional. (Only 7 oz.) Breath-blast filter. 40 to 20,000 cps. -55-db. 50, 150 and 250 ohms (supplied wired for 150 ohms). 1 1/2 x10 3/2".
With clamp-on adapter for 1/2" and 3/2"-27 stands; detachable, 20-ft. 3-cond. cable. 1 1/4 lbs.

57 S 243. List, \$200.00......NET 117.60





MODEL 55S DYNAMIC MICROPHONE

Rugged, dynamic mike; withstands severe mechanical shock as well as heat and moisture. Cardioid feature permits placement at a distance from performer 75% greater than all-directional mikes. ideal singer's or announcer's mike, 50 to 15,000 cps. Switch selects impedances of 35-50, 150-250 ohms, or high-impedance. Output, -57 db at high-imp. Swivel mtg.

MODEL 55SW. As above, but with On-Off switch for added convenience.

57 S 135. List, \$85.00.....NET 49.98

MODEL 556S. Deluxe version of 55S. Built to close tolerances for exceptional response (40-15,000 cps), and directivity. Shock mounted. Has Cannon XL-3. 41/2 lbs. 57 S 235. List, \$135.00 NET 79.38 MODEL 51 "SONODYNE." Semi-directional; for recorder and P.A. use. Response 60-10,000 cps. 35-50, 150-250 ohms, and high imp. switch. Output, -52 db. Chrome. Swivel mount. Detachable, 15-ft. cable. 53/6x31/8x21/8". Wt., 31/2 lbs.

57 S 228. List, \$49.50...... NET 29.11 MODEL 51S. Same as above, but with

On-Off switch,

57 S 136. List, \$51.50.....NET 30.28

MODEL 540S "SONODYNE II". Generalpurpose microphone for tape recording applications and sound systems. Alldirectional pattern-360° coverage. Has On-Off switch. Response switchable: 60-10,000 cps for music, 150-6500 cps for speech reproduction. Dual-impedance: 50-250 ohms, and high imp. Output: Hi-Z, -52 db; Low-Z, -57 db. Chrome and black. Swivel mount; \(\frac{5}{8}\)"-27 thread. 15-ft. cable. 3\(\frac{5}{8}\) x1\(\frac{4}{3}\)" dia. 3 lbs. \(\frac{5}{8}\) X1\(\frac{5}{8}\)". NET 29.37

MODEL 545 "UNIDYNE III". Sien cardioid-pattern mike. Response, 50 15,000 cps. Dual-impedance, changed moving one wire in plug (wired for hi-in Output: Hi-Z, -55 db; Low-Z, -57 Chrome and black. With A-25 sw adapter; 18-ft. cable. 513/6x1 1/4" diame Shpg. wt., 3 lbs. 57 S 161. List, \$85.00.......NET 49.

MODEL 545S. Above, with On-Off swit 57 S 133. List, \$89.95 NET 52

MODEL 535 "SLENDYNE." Practical directional mike. Excellent for indoor a outdoor sound system use. Has Onswitch. Can be hand-held, used on sta or with lavalier cord. Response, 60-13, cps. Dual-imp, switch selects 50-250 oh and high-imp. Output,—61 db. With swi adapter, %"-27 thread. 18-ft. 2-co shielded cable, MC3 connector. Sa chrome. 71%2"; 1 %" dia. 3 lbs. 57 S 255. List, \$72.50......NET 42.

Broadcast and Communications Mikes









520SL 520SLB

440 440SL

NEW MODEL 201. Low-cost high-quality hand-held ceramic mike for voice communications use. Omnidirectional pickup. Response: 200-4000 cps. Output: -55.5 db at 1 to 5 megohms load. With mtg. bracket, 5-ft., 3-cond. (1 cond. shielded) retractable cable. 4x2 1/x1 1/8". Push-to-talk

but high-impedance, controlled magnetic mike. List, \$22.00. low-impedance. List, \$22.00.... NET 12.94

MODEL 404C. Controlled magnetic mike. Gives excellent speech reproduction. Response: 200-8000 cps. Hi-imp. Output. -50.5db. Hi-impact blue-gray plastic case.

MODEL 330 "UNI-RON." Rugged, ultracardioid studio-quality, ribbon mikedesigned to meet the exacting requirements of professional tape recording and high-quality, indoor public-address systems. Reduces pickup of random noises by 73%. Shock-mounted, $\pm 2\frac{1}{2}$ db, 30-15,000 cps. Switch selects 50, 150 or 250ohm impedances. Output, -57 db. Swivel with \(\frac{5}{3}''-27 \) thread. Satin-chrome. \(\frac{31}{36} \) 1\(\frac{7}{3} \) 20-th cable \(\frac{11}{36} \) X 1 \(\frac{7}{3}'' \). Detachable \(20-\)ft. \(\text{cable with Cannon XL-3 connector. Shpg. wt., 4} \)

57 S 216. List, \$120.00......NET 70.56

MODEL 440SL. Omni-directional, controlled magnetic mike for radio communications. Has sharp cutoff below 300 and above 3000 cps. High-impedance. Output, -52.5 db. Ideal for single-sideband VOX: with grip-to-talk switch. Die-cast zinc case, chrome; gray base. With 7-ft., 2-cond. shielded cable, Amphenol MC3M plug, and stand, 9 3/x5x7". Shpg. wt., 5 lbs. 57 S 139. List, \$47.50........NET 27.93

MODEL 520SL "DISPATCHER". Rugge controlled magnetic mike. Has grip-to-ta lockable mike-relay switch. Respon 100-9000 cps. High-impedance. Outp -52.5 db. Chrome and green with 7-2-cond. shielded cable. 9 %" high; 5" ba Shpg. wt., 5 lbs. **57 S 233.** List, \$45.00...... **NET 26.**

MODEL 520SLB "DISPATCHER." above, but low-imp.—150-250 ohms. Oput, -51 db. 7-ft., 4-cond. cable. 57 S 163. List, \$49.25.....NET 28

MODEL 440. Similar to 440SL, but le grip-to-talk switch, and stand. Standa 5/8"-27 thread. With 7-ft., single-conduc shielded cable. 213/2" diameter, 31/4" ov all length. 1½ lbs. 57 S 138. List, \$25.00.....NET 14.

A87K SWITCH KIT. Not illus. For use w 440SL mike. Provides instant changeov VOX to push-to-talk operation; mike-mi in either operation. 2 lbs.

57 S 143. List, \$3.25.....NET 1



MODEL 710A "REX." Crystal. 60-9000 cps. Output, -50 db, high-imp. 7-ft. cable. 37/32×211/6×11/6". %"-27 thread. 11/4 lbs. 7.05

MODEL 710S. As above, with On-Off

57 S 232. List, \$14.00 NET 8.23

MODEL 510C "HERCULES." Controlled magnetic. 100-7000 cps.; -52.5 db; highimp. 7-ft. cable. 37/32x2¹1/₁₆x17/₁₆". ⁵/₆"-27 thread. 1 ½ lbs.

57 S 229. List, \$17.00.....NET 10.00

As above, with On-Off switch. 57 S 230. List, \$19.00.....NET 11.17

MODEL 715 "STARLITE." High-output crystal. Built-in stand. 60-10,000 cps. 35/32×23/16×19/32". 5-ft. cable 1 1/2 lbs

57 S 215. List, \$8.00 NET 4.70

MODEL 215. As above, ceramic element. 57 S 214. List, \$8.00 NET 4.70 NEW MODEL 275S. Ceramic, 40-12,000 cps. Hi-imp. Output, -59.5 db. Switch, lav. cord, stand adap. 423/2x111/32". 1 lb.

57 S 284. List, \$15.00 NET 8.81

MODEL 420. Controlled mag. 150-250 ohms, hi-imp. Cable, lav. 3/4 lb. 57 S 212. List, \$30.00......NET 17.64

NEW MODEL 430SL. Controlled mag. 60-10,000 cps. Dual Imp.: 150-250 and High. Output, -52 db. Mike, relay switch. 15-ft. 3-cond. shielded cable; \$38B stand; A-25B

adapter. 23/4 lbs. 57 S 283. List, \$49.95......NET 29.37

MODEL 430. As above, mike switch only. 150-250 ohms, hi-imp. 15-ft., 2-cond. cable; A-25B adapter. 1 ½ lbs.

57 S 213. List, \$38.50.....NET 22.64

MODEL 415. Controlled mag. High-imp. 7ft. cord, A-25B adapter. 1 1/2 lbs. 57 S 211. List, \$27.50.....NET 16.17

NEW MODEL 245 "UNIPLEX". Cardioid ceramic mike. Unidirectional—ideal for use under high noise conditions. Response: 50-7000 cps. High-imp. Output: -59 db. With 15-ft., 1-cond. shielded cable,

MODEL 245S. Above, with On-Off switch. 57 S 286. List, \$37.00.....NET 21.76

MODEL 777 "SLIM-X". Not illus. Alldirectional crystal mike. Response, 60-10,000 cps. High-imp. Output, -62 db. Chrome. Detachable, 7-ft. cable; neckcord. %"-27 thread. 4½x1". 1 lb. 57 S 252. List, \$25.00.....NET 14.70

MODEL 777S. Above, with On-Off Switch. 57 S 253. List, \$27.00 NET 15.88

SHURE MICROPHONE ACCESSORIES

S-38 BASE. For 777 Series mikes. Requires A-25, below. 1½ lbs. 57 S 192. List, \$4.50.........NET 2.65

B A-25 SWIVEL ADAPTER. For 777 mike, any stand listed in catalog. 5/6"-27 thread. 90° Swing. 1/2 lb.

57 S 193. List, \$5.50 C S-33 BASE. For any mike with A-25

Swivel Adapter, above. 11/2 lbs 57 S 295. List, \$15.00 NET 8.82

D A86A TRANSFORMER. For running lines from low-impedance mikes to high-impedance amplifier inputs. Matches 35-50 or 150-250 ohms. Response, ± 1 db, 20-20,000 cps. 2 % x1 % %. 1 lb, 57 S 107. List, \$17.50..........NET 10.29

S-36A STREAMLINED DESK MOUNT. Fits all Shure mikes except Series 405, 100, 76B and 420. 1 1/4 lbs. 57 S 191. List, \$6.50......NET 3.82



Wireless Microphones, Receiver, Accessories

UNLIMITED FREEDOM OF MOVEMENT

Transistorized FM wireless microphone gives you the convenience of complete mobility. Transmits on 33.13 mc to tunable receiver that easily connects to any public address system. Other transmitting frequencies are available on special order-write for data.

VEGA FM RECEIVER. Tunes 25-45 mc. Tuning eye; squelch; AFC; low, high-level outputs; "Vegatrol" output. 93/x63/4x 1258". For 110-120 v., 50-60 cycle AC. 19 lbs.

G 57 SC 298. Vega Hand-Held Mike. 5%x1". Whip antenna, 2 mercury batteries (1 for use, 1 spare). 1 lb......NET 249.75

H 57 SC 288. Press-To-Talk Accessory. For above. Controls transmitter. Extends 43/" below mike. 1 lb......NET 18.00

J 57 SC 287. Vega Lavalier Mike. Pull-switch controls transmitter. 51/8x1". Neck-cord ant., batteries. 1 lb...........288.00 57 SC 297. "Vegatrol" Control Relay. Connects to receiver for

55 J 672. Battery for Mike. Uses one. 3 oz.....NET EACH 1.80

57 SC 299. Slip Cover for Receiver. 12 oz.................NET 4.95





Lightweight and small in size, blends in with your clothing. You'll almost forget it's there.

/EGA



HIGH-IMPEDANCE MIKE

MODEL 511. A perfect ceramic mike for Citizen Band, Ham and other communications applications. Offers maximum clarity of speech and minimum sideband interference to other stations on same channel. Frequency response, 300 to 5000; output level, -51 db. Press-to-talk switch. 2-tone gray, plastic body. 6x2½x2½". 3-cond. cable. Wt., 7 oz. 57 S 289. List, \$19.75......NET 11.61

MODEL 513H. Dynamic. 11 oz. **57 S 290.** List, \$34.50.....**NET 20.29**

DELUXE CARDIOID MIKE

MODEL 77. A fine uni-directional dynamic cardioid microphone. Features extremely high front-to-back cancellation of 18 db for highest resistance to pickup from the rear-virtually eliminates feedback. Has suspended dynamic cartridge. Response, 30-15,000 cps. "Pop" and "blast-proof" "Mylar" diaphragm. Output -52 db. Switch selects 30-50 ohms, 150-250 ohms and high-Z. 5%"-27 thread. Satin-chrome. 8x2 ½x2 5%". With 20-th. 2-cond. shielded cable. 3 lbs. \$5 Monthly.

57 S 177. List, \$82.50...... NET 48.51

ECONOMY CRYSTAL MIKES

MODEL JT-30. A low priced, general purpose microphone. Excellent for CB, Hams, P.A., recording, etc. High impedance: With removable hand grip and interlocking desk-type stand. Detaches easily from hand grip for mounting on standard floor stands. Response, 30-10,000 cps. Output level, —49 db. Gray Hammerlin finish; chrome grille. 8" high. Includes 8-ft. shielded cable. Wt., 2½ lbs. 57 S 223. List, \$18.40......NET 10.82

MODEL JT-30F. Same crystal microphone as above, but less handle and basemike head only. Has \(\frac{1}{6}\cap{2} - 27 \) thread; fits any standard desk or floor microphone stand. Shpg. wt., 1\(\frac{1}{2} \) lbs.

57 S 123. List, \$15.90..........NET 9.35

"PREMIER" CRYSTAL MIKE

MODEL D-104. A high-impedance mike for Citizen Band and Hams, producing maximum amount of speech intelligibility. Response, 30-70,500 cps. Output level -45 db. %"-27 thread. Includes 5-ft. shielded cable. Shpg. wt., 1 ½ lbs. 57 S 225. List, \$31.00.......NET 18.23

BUDGET CRYSTAL MIKES

MODEL 200. An all-purpose crystal mike for CB, Hams, home recording, paging etc. Response, 30-10,000 cps. Output -- 56 db. High-impedance. Includes detachable base, with %"-27 thread. Gold and chrome 8x2 ½" diameter. 8-ft. single conducto shielded cable. Wt., 1½ lbs. 57 S 126. List, \$19.50.....NET 11.47

MODEL 200-S. Same as microphone above, but with convenient on-off switch

Shpg. wt., 1 1/4 lbs. 57 S 402. List, \$21.50..........NET 12.64

ALL-DIRECTIONAL MIKE

MODEL DN-HZ. The "Commentator"—a ruggedly constructed dynamic high impedance microphone. Features a handy tilting-head swivel mount. An outstanding unit designed for all general purpose sem or non-directional applications. Offers maximum speech clarity. Frequency re sponse, 50-10,000 cps. Output level, -5% db. Opalescent gray baked enamel with chrome grille and trim. 6%x2%x4%" %"-27 thread. Includes 10 ft. shielded cable. 2½ lbs. \$5 Monthly.

57 S 224 List, \$39.70...........NET 23.34

Model Stand

Versatile ASTATIC Economy Microphones



Slim mikes for Citizen Band, Ham, PA, tape recording and other applications. Have off-on switch, except 331 has momentary "On" spring-return switch. With lavalier and adapter for 5/8"-27 thread stand. Less stand. 41/2x11/4". 1 lb.

MODEL 332 CRYSTAL, For Citizen Band. Hams, high-quality tapes and P.A. 30-15,000 cps. Output level, -54 db. High impedance. Black and chrome. 57 S 122. List, \$17.90........NET 10.52

MODEL 331 CERAMIC. For Citizen Band, Hams, paging, etc. Press-to-talk switch with provision for relay control. Frequency response, 300-5,000 cps. Output level, -56 db. High-impedance. Black and chrome. With convenient hang-up bracket

57 S 127. List, \$17.90.....NET 10.52



MODEL 333 CERAMIC. As 332, but 30-

MODEL 335H DYNAMIC. 50-12,000 cps. Output, -56 db. High-imp. Gray 57 S 129. List, \$26.50.....NET 15.58

MODEL 335L DYNAMIC. As above, low impedance. Output, -57 db.

57 S 403. List, \$23.50. NET 13.82

MODEL A-7 DESK STAND. For 330 mikes above. Black plastic. 5 oz. 57 S 147. List, \$2.45......NET 1.44

MODEL T-3 "PIONEER" CRYSTAL. High-impedance mike with swivel hinge to convert unit from semi to non-directional pickup. Resists the effects of humidity. Frequency response, 30 to 10,000 cps. Output level, -52 db. 5/6"-27 thread. 6x 25/6×3". 10 ft. cable. 2 lbs.

MODEL 150 CRYSTAL. A high-output mike offering semi-directional pickup pattern. Frequency response, 30 to 10,000 cps with 5 megohm load resistance. Output level, -44 db. Size, 23/16x23/16x1 1/4" High impact gray plastic case with gold metal grille. With 5-ft, single conductor shielded cable. Shpg. wt., 1/2 lb. 57 S 144 List, \$6.50......NET 3.82

MODEL 151 CERAMIC. As above, but -48 db output; 30-8000 cps response. 57 S 130. List, \$6.50..........NET 3.82

MC-151 REPLACEMENT CARTRIDGE.

MODEL G STAND, For T-3, DN-50, DN-HZ, D-104, 10-C, 10-D, 77-L and other mikes. %"-27 thread. Chrome and gray finish. With 6 ft. cable. 2½ lbs.

57 S 222. List, \$29.30.....NET 17.23 57 S 185. List, \$24.95...... NET 14.67 50% More Buying Power with Allied's Credit Fund Plan



COMMUNICATIONS MIKE

:M-30M. Designed for Citizen's Band and ther communications applications, Feaures a high-impedance ceramic element, nmune to temperature changes and rumidity. 60-7000 cps frequency response overs the voice range—assures superior ransmission in noisy locations. Has pusho-talk button. Output level, -49 db. Plasic case, with handy magnet on back for "pick up-put down" use. Size, 3x2x asy "pick up-put down" use. Size, 3x2x 2". With 6-ft., 4-conductor shielded coil able. Shpg. wt., 1 lb.

7 S 277. List, \$16.50......NET 9.70

CM-30 COMMUNICATIONS MICRO-PHONE. Same as above, but with mountng bracket instead of magnet.

7 S 153. List, \$16.50......NET 9.70

TAPE RECORDER MIKE

CM-32. Fine for tape recorder and enterainment use. Frequency response, 85-3500 cps. Output level, —49 db. High mpact plastic case. Supplied with 7-ft., 2-conductor shielded cable and phone olug. Shpg. wt., 1 lb. i7 \$ 160. List, \$12.50...... NET 7.35

LOW IMPEDANCE MIKE

CM-12A. Ceramic mike designed for public address systems or any other installation requiring long leads. Has push-to-talk button. Response, 200 to 8000 cps. Output level, -63 db. Die-cast metal case is finished in satin chrome. With 18ft. cable. Shpg. wt., 21/4 lbs. 57 \$ 152. List, \$29.50.....NET 17.35

CERAMIC "FLEX-MIKE"

MC-17A. A high-impedance mike that's perfectly suited to Citizen's Band, Ham, audio-visual, paging and P.A. applications. Frequency response, 50 to over 11,000 cps. Output level, -56 db. A controlled presence peak in mid-range adds vocal realism. Has convenient flexible stand with 13" cable attached to removable mounting plate. Brush chrome with gold finished wire grille. With 6-ft. shielded cable. Shpg. wt., 4 lbs.

57 S 154. List, \$24.50.....NET 14.41

CMS-10 MIKE STAND. Chrome-finished, swivel mount. Padded felt removable base with 5/8"-27 thread. Wt., 2 lbs. 57 S 179. List, \$5.00.....NET 2.94

"MATCHED TWINS" MIKES

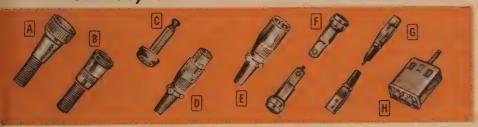
CM-T10A. A pair of deluxe ceramic microphones for tape recording. Acoustically matched at the factory to capture the full brilliance of live stereo sound. Response, 50 to over 11,000 cps. Unaffected by temperature and humidity. Output level, -56 db. All-directional; high-impedance. One-piece metal case in brushed chrome, with gold finished wire grille. Size, 51/8" long and 11/16" in diameter. 7-ft. shielded cable with phone plug. Less CMS-10 stands, below left. Shpg. wt., 8 lbs. List, \$35.50 57 \$ 151.....NET PER PR. 20.87

CM-10A. Single mike, similar to above, for monophonic recording, P.A., etc. With 7-ft. cable and phone plug. Less CMS-10 stand. Shpg. wt., 2 lbs. 57 S 178. List, \$17.50...NET EACH 10.29

CM-11A. Similar to above, but output level is -53 db. For use where greater sensitivity is desired. Frequency response, 80-9000 cps. Supplied complete with 7-ft. cable and phone plug.

57 S 180. List, \$17.50...NET EACH 10.29

Cables, Connectors and Mixers



BELDEN SHIELDED CABLES

Silla	16-C	onauc	101 1	01 111	Au-imb	.iviine a	
Mfr's		Wt.	50-ft. S	pool	Over 100'		
Mfr's Type		100'	No.			Per 100	
8401	.200"	21/2 lbs.	47 T 563	2.30	47 W 564	4.21	
8410	.245"	4 lbs.	47 T 449	3.82	47 W 564 47 W 444	7.20	

Two-Conductor-For Low Imp. Mikes 8428 | .295" | 6 1/4 | lbs. | 47 T 467 | 5.29 | 47 W 469 | 10.29 | 8422 | .231" | 4 | lbs. | 47 T 455 | 3.18 | 47 W 456 | 5.73

SWITCHCRAFT CONNECTORS

SINGLE CONTACT TYPES. Standard %"-27 threads. 2501 fits all Knight P.A. amplifiers. When splicing 2 cords, use two 2501F (as plugs or jacks). 3 oz.

Stk. No.	Fig.	Туре	Description	NET
57 S 405 57 S 406 41 H 657	В	2501F 2501M 44	Plug or Jack Plug Phone Plug Adapter	.35 .26

STRAIGHT-CORD PLUGS

Cannon 3-contact audio connectors with clamps and resilient socket insulator. Satin-nickel; push-action, latch-lock. Each

contact	t rate	ed 15 am	ps. Av. wt.,	4 oz.
Stk. No.	Fig.	Type	Description	
40 H 790		XLR-3-11C	Female Socket	
40 H 791	E	XLR-3-12C	Male Pin .	1.13

MIKE EXTENSION CABLES

Plug extension cable into mike; connect old cable to free end of extension. 2conductor shielded.

Stk. No. Fig.			Lgth.		NET
57 S 156 F	87 AU87	75-MC1F each end.	25 ft.	1¼ lbs.	2.94
57 S 278 F	87AF87	Same As Above.	36 in.	2 lbs.	1.18
			6 ft.	4 lbs.	1.47
57 S 158 G	91BU92	Cannon XL3-11 and XL3-12 plugs.	25 ft	1¼ lbs.	7 35
1	1	VED-15 hings.	123 11.	14/4 11/5.	7.00

MINI-MIX AUDIO MIXERS

Accept 2 high impedance sources. Separate gain controls. 21/16x113/16x11/16". Av. shpg. wt., 4 oz.

57 S 114. As above, but with longer output for recessed jacks....... NET 5.26 57 S 113. Male inputs, female output for 5/27 screw-type conn....4.67 57 S 404. For late model Wollensak

and Revere recorders......NET 5.26



306 Microphone Mixer

SWITCHCRAFT STEREO MIXERS

MODEL 306. Flip a switch and this mike mixer's 4 monophonic channels convert to 2-stereo's. Four input jacks on rear panel; high impedance circuitry. Two phono jacks for output to amplifier or tape recorder. 2x3x6". Wt., 1½ lbs. 57 S 171, List, \$22.50...... NET 13.23

MODEL 306TR. As above, but with two battery-operated transistor amplifiers. With battery. Wt., 11/2 lbs. 57 S 172. List, \$37.50.....NET 22.05

SWITCHCRAFT MONOPHONIC MIXERS

MODEL 301. (Not illus.) Similar to 306. Permits mixing four signals into a single output. Accepts std. 2-cond. phone plugs; std. phono jack output to tape recorder or amplifier. 2x3x6". 1 1/2 lbs.

57 S 169. List, \$19.50......NET 11.47

MODEL 301TR. Above, but battery-powered transistor amp. With battery. 57 S 170. List, \$30.00......NET 17.64

41 H 341. Connector Cable. 36". Pin plug one end, phono plug other. 4 oz.....88c



MS-10C FLOOR STAND. Excellent for average weight mike. Clutch for secure hand grip. Adjusts from 35" to 64". Gray base has self-leveling, shock absorbing pads. 2-section chrome tube. Base dia., 10", 5%"-27 thrd. 10 lbs.

57 SX 325-2. List, \$10.00..... NET 5.88

MS-11C. As above; all chrome. 12 lbs. 57 SX 326-2. List, \$13.75.....NET 8.09

MS-4 TELESCOPING FLOOR STAND. 3 sections permit frequent adjustments with ease from 26-61"—perfect for schools, etc. Gray shrivel base, chrome tube. Base diameter, 10". 5%"-27 thrd. 11 lbs. 57 SX 270. List, \$15.75.....NET 9.26

SB-1

NS-1

MS-11S AUTOMATIC FLOOR STAND. Press "Sleeve Action" control-telescoping section lowers to desired position. Adjustable from 35" to 65". All chrome. Base dia., 10". 5%"-27 thrd. 13 lbs. 57 SX 271. List, \$25.00 NET 14.70

MS-25 PROFESSIONAL FLOOR STAND. "Air Lock" controls drop—prevents mike damage. Adjusts from 37" to 66". Base dia., 17"—very stable. Chrome and gray base; chrome tube. 5%"-27 thrd. 22 lbs. 57 SU 330-2. List, \$28.00.....NET 16.46

CS-42 COLLAPSIBLE BASE STAND. 3-legged portable stand easily folds or unfolds. Chrome tube adjusts from 34" to 62". Shrivel gray base-dia., 16". 5/8"-27 thrd. With base pads. Wt., 9 lbs.

57 SX 315. List, \$13.00 NET 7.64

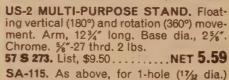
BB-1 "BABY BOOM" STAND ATTACH MENT. Converts any floor stand with 5% 27 thread to boom-type stand. 5-ft. circl positioning; adjustable counter-balance Chrome plated. 32" long. 4½ lbs. 57 SX 328. List, \$8.00...... NET 4.70

BS-36 PROFESSIONAL BOOM STAND Similar to MS-25 (at left) but with removable 62" arm. Adjusts from 48" to 72' Chrome. Base dia., 17". 33 lbs. 57 SU 329-2. List, \$66.50... NET 39.10 BS-36W. As above, but mobile. 40 lbs.

57 SU 318-2. List, \$76.50.....NET 44.9 CS-33. "TAKE APART" TYPE FLOOI STAND. Collapsible, 3-section portablestand. Adjusts from 26" to 64". 5%"-27 thro

Chrome plated. Shpg. wt., 4 lbs. 57 SX 327. List, \$14.50..... NET 8.54

MICROPHONE DESK, BANQUET AND SWITCHBOARD STANDS



mounting, 225° rotation, 2 lbs. 57 S 274. List, \$8.25......NET 4.85

DS-4 DESK STAND. Attractively styled -light beige finished base and detachable chrome tube. Base dia., 4"; tube 4" high. 5%"-27 thread. Wt., ½ lb.

57 S 272. List, \$2.50......NET 1.47

SB-1 SWITCHBOARD STAND. Sits atop switchboard. Has 12" flexible arm (%"-27 thrd.). Cast base, 9x6½". 13 lbs. 57 S 145. List, \$15.75.........NET 9.26

NS-1 NECK and CHEST HOLDER. Neck cord, non-rolling chest support and removable goose-neck holder. 10 oz. 57 S 183. List, \$5.50......NET 3.23 DS-5 DESK STAND. Chrome-plated tube

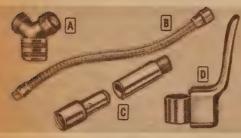
4" high. Cast-iron base; 6" diameter. Rubber pads. 3"-27 thread. 2 lbs. 57 S 208. List, \$3.25.....NET 1.9

DS-7 ADJUSTABLE DESK STAND Clutch adjusts from 8" to 13". 2-section chrome-plated tube. Gray base diameter 6"; has rubber pads. %"-27 thrd. 3 lbs.

DS-10 DESK STAND. Cable fits in slo

TS-6 BANQUET STAND. Not illus. Fo speaker's table. Extends from 141/2 to 26 Base diameter, 8". Wt., 6 lbs.

57 S 188-2. List, \$9.75.....NET 5.73







Stock	No.	Type	Fig.	Description	Wt.	EACH
41 H	996		A	"Y" Mike Connector	2 oz.	.97
57 S	189	GN-13	В	Flexible 13" Gooseneck	1 lb.	1.62
57 S	206	GN-19	В	As above, 19" long	11/2 lbs.	2.35
57 S	187	SO-1		Snap-on Mike Attachment	1 lb.	1.62
57 S	207	CH-1	D	Cable Hanger; fits all stems	1/2 lb.	1.62
41 H	946	329	E	Mike Volume Control; Hi-imp.		4.09
57 S	106	AD-7	F	3" Extension Rod; 5/3"-27 ends	3 oz.	.36
57 S	105	AD-8	F	As above, 6" long	4 oz.	.44
41 H	950		G	Push-to-Talk Switch with lock	6 oz.	1.89
57 S	115		H	"Save-Ur-Mike" Plastic Cover	2 oz.	.69
57 S	190	BC-1	J	Bracket Clamp; 6" stem	1 lb.	2.06
57 S	204	SW-1		Gyromatic Mike Lock Swivel	11/2 lbs.	

ATLAS MIKE STAND ADAPTERS. For desk and floor-type microphone stands. All are chrome-plated. Shpg. wt.: Models AD1, AD2, AD3, AD4, AD5, and AD10, 2 oz.: AD11 and AD12 6 oz

Stock No.	Туре	Fig.	Description	EAC
57 5 108	AD1	L	For adapting RCA mikes. 1/2" male to 5/4"-27 female.	534
57 S 198	AD2	K	1/8" pipe female to 5/8"-27 male.	386
57 5 199	AD3	M	1/8" pipe female to 5/8"-27 female.	38
57 S 201	AD4		3/4" long. 5/8"-27 male coupling.	20
57 S 202	AD5	M	5/8"-27 to 5/8"-27 female coupling.	380
57 S 203	AD10		Adapts W.E. mikes. 3/8"-24 female	
			to 3/8"-27 female.	77
57 S 104	AD11	P	Mike base flange. Female. 5/4"-27.	44
57 S 103	AD12	N	Mike base flange. Male. 5/8"-27.	44

KNIGHT KN-85 Paging and Talk-Back Unit



• Highly Efficient Built-In Aluminum Driver Unit

• Excellent Speech Intelligibility

• Speaker Offers Wide Frequency Response

Can Be Used Indoors or Outdoors

Allied's own, best value reflex-type paging and talk-back speaker with built-in 5-watt driver. Offers frequency response of 400 to 13,000 cps with a special rising frequency characteristic to assure excellent speech intelligibility. Horn has 120° dispersion angle. Sensitivity when used as mike, -26 dbm. Impedance, 8 ohms. Bell is 63/8" in diameter. Overall length, 7". With mounting

bracket. Made in U.S. Shpg. wt., 31/4 lbs. 57 D 579 NET 12.75

MODEL KN-80. As above, but for areas with high noise levels. Capacity, 25 watts; imp., 8 ohms; response, 250-13,000 cps; disp., 90°; dia., 10½"; length, 9". 4 lbs.



Multi-Purpose Portable Power Megaphones



FANON ECONOMY MEGAPHONE

MODEL MV-1. This low priced unit projects voice 300 yards. Two switches instantly select high or low power for most efficient battery use. Aluminum with enamel finish. Has carrying strap. Battery life, 10 hours (continuous). Less batteries, below. Horn dia., $6\frac{1}{2}$ ". 4 lbs. 57 SX 320. List, \$44.95.....NET 26.41

55 J 501. Burgess 210 Battery. Uses 4.

FANON DELUXE MEGAPHONE

MODEL MV-8. Professional all-transistor unit with a range of 600 yards. Offers excellent speech intelligibility. Durable aluminum with baked-enamel finish. Rugged, waterproof dynamic microphone, pistol-grip trigger, variable volume control, carrying strap. Average continuous battery life, 10 hours. Horn diameter, 9". Less batteries. 6 lbs. \$5 Monthly.

57 SX 321. List, \$112.50 NET 66.15 55 J 017. Battery. Uses 8. 3 oz..., EA. 14c

MODEL PP-1. Powerful P.A. system delivering 25 watts for intelligible voice throw up to 1000 yards. Offers high stability under all operating conditions. CD-approved for fund matching. Press-to-talk "Powrsaver" switch gives instantaneous operation and lengthens battery life. Has input jack for record player. "Talk/over" feature lets voice be heard

cluding batteries. Has convenient jack for use with external 6 or 12 volt DC source; press-to-talk switch. Horn diameter, 8". Less batteries, below (uses 6). Shpg. wt., 6 lbs. \$5 Monthly.

57 SX 323. List, \$82.50.....NET 48.51 55 J 020. Battery. 2 oz......EACH 10c

DELUXE UNIVERSITY "POWRPAGE" SYSTEMS

over music; Talk/Listen switch for directional listening. Less batteries, below. Carrying strap. Dia., 9". 13 lbs. 57 SX 302. List, \$104.50.....NET 61.45

MODEL PP-1T. As above, but transistorized. Shpg. wt., 8 lbs. \$9 Monthly 57 SX 301. List, \$283.25....NET 166.55 55 J 016. Battery. Uses 4. 2 lbs. EA. 87c

ALL-TRANSISTOR BULLHORN

Lowest-cost, all-transistor directional megaphone with voice throw up to 300 yards. Lightweight and easy to operatejust press trigger and talk. Features adjustable volume control, plus leather carrying strap. 101/2" long. Uses 4 standard 1 1/2 volt batteries (not supplied with unitsee below). Shpg. wt., 2½ lbs. 57 SX 322. List, \$10.00..........NET 6.89

55 J 005. Burgess "2" Battery. Uses 6. Shpg. wt., 3 oz..........EACH 14c

UNIVERSITY "POWRPAGE" Model PP-2. An excellent general pur-

pose unit with a 440 yard range. Easy to handle—weighs only 3% pounds, in-

sound power for deep voice penetration, while two angled reflex speakers assure very wide coverage. Easy to carry-weighs only 12 pounds, including batteries. Has only two controls (both on mike housing) for easy operation: a press-to-talk switch for instantaneous use and increased battery life; and a volume control. A special microphone design virtually eliminates feedback problems. Can be used in any kind of weather. Overall size, 8x173/x11" Supplied complete with 2 standard 6-volt batteries and a convenient leather carrying strap. Wt., 16 lbs. 57 SX 331. \$8 Monthly NET 157.35

HOLMIN DELUXE VOICE GUN

MODEL 120. An extremely efficient alltransistor portable system, specifically designed for use wherever large groups

or crowds gather. Delivers 10 watts of

55 J 016. Extra Battery. 2 lbs... EACH 87c

HOLMIN VOICE GUN

MODEL A-12. Heavy-duty, hand-held P.A. unit with husky 3-transistor amplifier to punch voices out 500 yards or more. Withstands all weather conditions. Transistors plus press-to-talk switch give instant operation and long battery life—up to 1 year in normal use. With leather carrying strap. Includes 8 standard penlight cells Horn diameter, 71/4". Shpg. wt., 6 lbs. \$5

57 SX 319. List, \$119.95....NET 89.96 55 J 005. Battery. 3 oz.....EACH 14c





Consisting of several speakers arranged one above another in a special enclosure, the Sound Column or Line Radiator offers uniform loudness over a wide horizontal pattern. The people in front are not blasted by sound, and the people in back can relax and hear as well as those in front. Annoying feedback and reverberation effects are greatly reduced. Installation is simple—complicated planning and installation fees are eliminated. Anyone can install sound columns for any job, and get better coverage—in most installations—at lower cost.



Electro-Voice **Sound Line Radiators**

MODEL LR-4 CURVED LINE RADIATOR. Wide-range projector designed specifically to control feedback in difficult P.A. installations for natural sound reinforcement. May be hung in clusters in theaters, cathedrals, gyms and other difficult surroundings. 12 top-quality 4" speakers provide a response of 150-10,000 cps. Dispersion: horizontal, 160°, vertical, 60°. Capacity, 25 watts. Impedance, 8 ohms. Neutral tan finish. Universal mounting brackets. 49"x7"x13". Wt., 22 lbs. 57 DZ 529. List, \$115.00. \$5 Monthly......NET 67.62

MODEL LR-7. As above, but with 9-5x7" speakers and 2-VHF drivers. Response: 100-20,000 cps. Dispersion: horizontal, 160°, vertical, 45°. Capacity, 50 watts. Size 60x11x14". Shpg. wt., 70 lbs. 57 DZ 699. List, \$165.00. \$5 Monthly. NET 97.02

MODEL LR-4S. STRAIGHT LINE RADIATOR. Horizontal, 160°; vertical, 30°. Response, 150-10,000 cps. Capacity, 25 watts. Impedance, 16 ohms. 52x7 1/x 45%". 16 lbs. 57 DX 698. List, \$125.00. \$5 Monthly....

University, Sound Column Speaker

MODEL CS-3 COLUMN SPEAKER. Designed for use in hig reverberation areas where speech clarity is vital. Also fine for wide music projection. Features "Acoustic Tapering" for unifor dispersion and response. Has 6 oval and 2 tweeter speaker Capacity, 25 watts. Dispersion: Horizontal, 120°; vertical, 20 Response, 150-10,000 cps. Impedance, 8 ohms. Neutral finish. 48 1/2x83/4". Shpg. wt., 55 lbs. \$5 Monthly. 57 DZ 532. List, \$149.95....

MODEL CS-4. Similar to CS-3-provides excellent music ar voice reproduction, with 80-watt power-handling ability. Use four 8" speakers for wide response of 70-17,000 cps. Dispersio

MODEL CS-6. As above, but has power handling capacity of L to 150 watts. Response, 55-17,000 cps. Dispersion: horizonta 120°; vertical, 16°. Impedance, 16 ohms. Size, 591/6x101/8x91/16 Shpg. wt., 61 lbs. \$9 Monthly. 57 DX 530. List, \$299.90....NET 176.

Enjoy High Fidelity Music Outdoors

ELECTRO-VOICE MUSICASTER SPEAKER

Unique one-piece weatherproof speaker system. Employs a diecast aluminum, back-loaded folded horn as an integral part of its structure—extends bass response to 60 cps. The "Musicaster" provides clear and realistic reproduction of voice and music.

MUSICASTER II. Same fine unit as above plus VHF tweeter.

MODEL MB-1 MOUNTING BRACKET. For mounting "Musicaster" flat against wall. Replaces "U" bracket. Wt., 1 lb. **57 D 585.** List, \$4.50......NET **2.65**

UNIVERSITY MUSIC /AIRE SPEAKER

MODEL MLC. A weatherproof, coaxial hi-fi speaker for "lo level" speaker distribution systems or for moderate-size crowds and areas. Perfect for outdoor paging speaker applic tions-reproduces music or voice with equal success. Respons 150-15,000 cps. Uses 2,000 cycle cross-over network. Dispersio

MODEL BLC. A deluxe hi-fi speaker, similar to the MLC, d signed for highest quality P.A. reproduction. Excellent f bandstands, lawns, swimming pool areas, etc. Response, 7 A. Speakers, Trumpets and Drivers by University.

PAGING and TALK-BACK SPEAKERS

ighly efficient reflex type air-column reproducers. All speakers listed allow are complete driver-trumpet units, designed specifically for maximum beech intelligibility. Speakers are weatherproofed, rugged and reliable, river units are hermetically sealed PM dynamic types. LIL-8 is decorator ager; IB8A is general purpose; CIB-A8, wide angle for uniform coverage. IIL-A8 and CMIL-A8 for low power systems. IBR-A8 for widest dispersion. omplete with mounting accessories. 8-ohm impedances. *HWD.

Stock No.	Mfr's Type	Frequency Response	Watts	Disper- sion	Dia.	Length	Wt. Lbs.	List	NET EACH
DX 818 DX 504 DX 515 D 569 D 572 DX 516	LIL-8 IB-A8 CIB-A8 MIL-A8 CMIL-A8 IBR-A8	300-10,000 250-13,000 250-13,000 350-13,000 350-13,000 300-10,000	15 25 25 7½ 7½ 25	110° 90° 120x60° 120° 120x60° 360°	6 % 10 % 6 %	15% 9 *7%x14x12 7 *6 ⁷ / ₃₂ x9½x8 ⁷ / ₁₀ 10¼	4½ 4 5½ 3¼ 4 5¼	\$41.58 34.50 46.00 28.35 32.73 48.83	24.45 20,29 27.05 16.67 19.25 28.71

DIRECTIONAL REFLEX TRUMPETS

irectional P.A. trumpets for deep sound penetration with a narrow distriution angle. Excellent for applications where an exceptionally "long prow" is necessary, or for areas where high noise levels have to be overome. The large horn diameters of the units listed below provide a sharper istribution pattern than would be obtained with smaller units—provide here sound intensity along the speaker axis. Model SMH for voice only, upplied with "U" mounting bracket. Less driver.

Stock No.	Mfr's Type	Low Cutoff	Disper-	Length	Dia.	Wt. Lbs.	List	NET EACH
57 DZ 563 57 DZ 564 57 DZ 565 57 DZ 565 57 DZ 562 57 DU 559 57 DX 543 57 DX 543	PH SMH GH LH CLH 2WP Cobre-	150 cps 200 cps 85 cps 120 cps 120 cps 350 cps 200 cps	85° 95° 65° 75° 120x60° 120° 120x60°	15¾" 12" 28" 19" 21½x11½" 20½" 18½x9½"	201/4" 161/4" 31" 253/4" 20" 81/4" 101/4"	11 3/4 8 22 16 1/2 15 4 10 1/4	\$34.13 28.88 75.60 46.73 46.50 29.40 40.25	29.97 16.98 44.45 27:48 27:34 17:29 23.67

HEAVY-DUTY DRIVERS FOR TRUMPETS

op-quality drivers for any trumpet listed above. All are PM type, hermetically ealed, with 16-ohm impedances. ID-40T, ID-60T have built-in multi-imedance transformers with power taps. *For 70.7 v. systems.

Stock . No.	Mfr's Type	Frequency Range	Wattage of Taps	Max. Watts	Wt., Lbs.	List	NET EACH
7 D 573	ID-20	120-6500		20	3	\$25.00	14.70
7 D 574	ID-30	85-7500	1	30	33/4	31.50	18.52
7 D 575	ID-40	80-12,000	*****	40	4½ 5¾	39.50	23.23
7 D 577	ID-60	70-12,000		60	53/4	52.75	31.02
57 D 576	ID-40T	80-12,000	40, 20, 10, 5, 2.5	40	51/4	52.75	31.02
17 D 578	ID-60T	70-12,000	60, 30, 20, 10, 5, 2,5	60	61/4	63.25	37,19



Sound Projectors, Horns and Drivers by Electro Voice

PAGING SPEAKERS AND PROJECTORS

Very efficient re-entrant type paging speakers and coaxial projectors. Speakers feature die-cast horns, and are complete with drivers. Excellent or paging systems, police and fire vehicles, etc. Compound projectors have ingle driver—feature fiberglas construction, and offer wide horizontal coverage and smooth frequency response from two horns coupled to apposite sides of the driver's diaphragm. Speakers and projectors are veatherproof. CDP with type number indicates compound projectors.

Stock No.	Mfr's Type	Frequency Response	Watts	Disper- sion	Ohms	Size	Wt. Lbs.	List	EACH
7 DX 819	PA-7	400-13,000	7½	120°	16	6¾x6"	3½	\$28.35	16.67
7 D 676	PA-15	350-13,000	15	120°	8	8¾x5¾x8³/s2"	5½	30.00	17.84
7 DU 540	848 CDP	150-10,000	30	120°	16	20½x10½x20"	15	82,50	48.51
7 DX 542	847 CDP	250-10,000	25	120°	16	11¾x7¾x10½2"	10	51.00	29.99
7 DX 544	844	250-13,000	30	90°	8	9½x8³/s	8½	36.50	21.46

HORNS FOR SPECIAL APPLICATIONS

Rectangular compound horn (FC-100) has large horn for bass—small for highs. Round re-entrant horn (AR-150) has spun aluminum bell. Less drivers.

Stock No.	Mfr's Type	Low Cutoff	Disper- sion	Length	Mouth Size	Wt.	List	NET
57 DU 520	FC-100	100 cps	90x120°	201/2"	10½x20½″	12	\$50.00	29.40
57 DU 521	AR-150	150 cps	85°		21″	8	34.00	19.99

DRIVERS FOR ABOVE HORNS

Can be used in both compound and re-entrant horns. Have double power ceramic magnets, edge-wound ribbon voice coils. Tin type no. indicates with transformer. All have 16-ohm impedances. *For use in 70.7 v. systems.

							-
	C30A	150-10,000 150-10,000	30, 15, 5, 2,5	30 30	4½ 5¾	\$31.00 41,00	18.23 24.11
The state of the s	C40 C40T	140-11,000 140-11,000	40, 20, 10, 5	40 40	6¾ 8¾	40.00 52.50	23.52 30.87





Baffles Made

Exclusively for

ALLIED

With Famous Dual **Diameter Speakers**

. Deliver Twice the Sound Per Watt



8" Speaker in Baffle with L-Pad Control



. . . Deluxe Speaker-Baffle Combinations

8-OHM WALL SPEAKER-BAFFLE COMBINATION

Ruggedly constructed, tastefully styled and completely wired, it's a wonderful choice as an extension speaker for the recreation room or den. Delivers twice the sound per watt! Features dualdiameter 8" speaker with 10-watt capacity; L-pad volume control; 8-ohms impedance. 91/2x12x6". Available in choice of mahogany, walnut or blonde finish. Shpg. wt., 6 lbs.

57 DX 552C. Specify Finish......NET 13.95

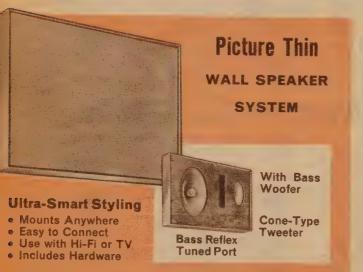
70.7-VOLT SPEAKER-BAFFLE. Above, but for systems with 70.7 volt outputs. With 70.7-volt transformer and L-pad. 7 lbs. 57 DX 553C. Specify Finish......NET 15.95

8-OHM SPEAKER ONLY. With wired L-pad, 18" cable. 3 lbs. 57 D 570.....NET 6.65

70.7-V. SPEAKER. As above, for 70.7-v. systems. 4 lbs. 57 D 571.....NET 8.65

BAFFLE ONLY. Mahogany, walnut, or blonde. 3 lbs.

57 DX 556C. Specify Finish......NET 7.50

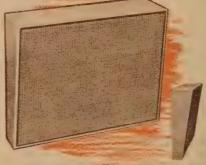


2-WAY WALL-MOUNTING SPEAKER SYSTEM

Add impressive sound to your home—without disturbing room decor. This fine-quality 2-way system is only 3" deep may be hung on the wall just as easy as you hang a picture. Use it for high fidelity systems where floor space is limited or as a remote speaker to carry hi-fi music to other rooms in the home. System consists of 6x9" woofer with inverted construction and dual-diameter magnet structure design that provides twice the sound per watt; high efficiency 3x5" conetype tweeter with 2000 cps crossover; and tuned port baffle for extended bass response. Screw slots and "S" hooks are provided for easy installation within a matter of minutes. Attractive modern styling and fine-furniture finish also makes it suitable for use in restaurants, clubs, schools and offices. Size, 12x18x3". Power handling capacity, 8 watts. Impedance, 8 ohms. In choice of mahogany, blonde or walnut-specify when ordering. Shpg. wt., 5 lbs.

57 DX 503C. Specify Finish......NET 15.85

Eliminates the need of making ceiling cut-outs. This fine-perform ing speaker-baffle combination measures only 2½" deep-quickly mounts on ceilings ¾" to ¾" thick with mounting hard ware supplied. Perfect for tiled or regular ceilings in homes offices, restaurants, department stores, etc.; gives excellen voice and music response. Uses the unique 8" inverted speake developed by Utah to save space while assuring maximum operating range. This design shifts the magnet and voice coil to the front of the cone-increasing the dispersion pattern and offer ing wider distribution of sound. In addition, the speaker has efficiency and power-boosting dual-diameter design—resulting in increased economy in custom installations due to lower sound power requirements. Delivers twice the sound per watt Capacity, 6 watts. Impedance, 8 ohms. Size, 21/2x121/2x121/2". Handsomely styled in beige. Finish may be repainted to match any existing color scheme. Shpg. wt., 7 lbs.



Extra Thin WALL BAFFLE and SPEAKER

Utah's Exclusive Thin Profile Speaker-Baffle with Inverted, Dual-Diameter Speaker

EXTRA-THIN SPEAKER-BAFFLE COMBINATION

Here's a streamlined, thin silhouette sloping baffle that can be hung anywhere. Excellent for offices, dens, patios, and other extension applications. Features the remarkable 8" inverted speaker designed by Utah to give twice the sound per watt. Comes complete with all hardware and instructions plus convenient screw terminal connections. Size, 9" high, 12" wide, and 4" deep. Power handling capacity is 6 watts. Impedance is 8 ohms. Available in choice of three handsome woodgrain finishes, mahogany, blonde, or walnut. Finish may be repainted to match surrounding decorative motif. Grille cloth matches finish ordered.

57 DX 501C. Specify Finish.....NET 10.82

LOW-COST EXTENSION SPEAKER-BAFFLE

- All-Metal Construction
- Use Indoors or Outdoors
- Handles 8 Watts of Power
- · Simple to Install and Use

Compact and lightweight, this Utah all-metal baffle and 8" speaker combination gives highly realistic reproduction of voice and music. Handy screw terminals for simple installation. For indoor or outdoor use. 91/2x101/2x31/2". Capacity, 8 watts. Impedance, 8 ohms. Walnut vinyl finish. Shpg. wt., 5 lbs.





"PRESTIGE" WALL-MOUNTED BAFFLES

w rectangular shape—ideal where extra air volume and larger pearance are needed. Give almost twice the internal volume in far better tone. Include "Speedy Mounting" clips for easy nging. Wood-grained pyroxylin covered with plastic grilles. railable in walnut or blonde—specify choice.

Stock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
DX 527C	PB-8A	103/8x14x7"	8"	4	5.73	5.42
DX 528C	PB-12A	133/4x181/4x9"	12"	7	8.09	7.65

DELUXE WOOD WALL BAFFLES

autifully finished baffles for the finest surroundings. Of nuine birch with durable plastic grille. With all hardware and ounting clips. Specify choice of walnut or blonde.

lock No.	Model	Sîze //				6-UP, EA.
		101/2x93/4x61/2"			5.88	8.23
DX 524C	DWB-12A	14x135/8x91/8"	12"	5	5.60	7.80

LOW-COST WALL-MOUNTED BAFFLES

ood, pyroxylin covered baffles. Can be washed or repainted. ith hardware. Specify walnut or blonde finish.

D 590C	WB-4/5C	61/8x61/4x4"	4-5"	11/2	2.89	2.73
D 592C	WB-6C	81/2x77/8x5"	6"	2	3.53	3.34
D 591C	WB-8C	10½x9¾x6½"	8"	3	4.22	3.98
DX 5250	WB-10C	123/8×117/8×73/4"	10"	4	5.00	4.73
DX 5260	WB-12C	14x135/8x9"	12"	5	5.73	5.42

SLANTING-FRONT CORNER BAFFLES

ew "Clip-In" front goes on or off in seconds without front rews-entire cabinet mounts easily on wall with "Speedy ounting" clips. Screw terminals; bass reflex; acoustic padding. food-grained pyroxylin covered—walnut or blonde, specify.

itock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
DX 510C	SCB-8D	15x173/4x9"	8"	6	8.18	7.73
DX 511C	SCB-12D	20x203/4x101/2"	12"	8	11.02	10.42

STRAIGHT-FRONT CORNER BAFFLES

s above, but straight-front. Specify blonde or walnut.

7 DX 512C C 7 DX 513C C	m / of 100 / 60	7.35 10.55	

NEW THINLINE BAFFLES WITH JENSEN SPEAKERS

Modern Looking and Heavy-Duty **Profile Speakers**

Modern-looking, space-saving baffles complete with ceramicmagnet speakers—optional L-pad and /or 70.7 volt transformer—installed and wired. Screw terminals. Pyroxylin covering for lasting beauty. Speedy mounting clips for easy set-up. Series 208 are 8", 15 watt rating. Series 212 are 12", 18 watt. Type 108 is 8", 6 watt, for background music. Letter L under model number indicates L-pad; T indicates 70.7 volt transformer. All speakers are 8 ohm impedance. Available in choice of walnut or blonde finish-specify when ordering.

Stock	Model	Baffle	Wt.,	NET EACH	
No.	No.	Size	Lbs.	1-5	6-Up
57 DX 505C	WB-108AS	91/2x12x41/4"	4	7.01	6.61
57 DX 506C	WB-208S	91/2x12x41/4"	- 5	10.19	9.68
57 DX 824C	WB-208ST	91/2x12x41/4"	5	12.59	. 11.97
57 DX 507C	WB-208SL	91/2x12x41/4"	5	12.59	11.97
57 DX 825C	WB-208SLT	91/2×12×41/4"	5	14.99	14.24
57 DX 508C	WB-212S	133/4×16×61/4"	8	14.85	14.10
57 DX 826C	WB-212ST	133/4×16×61/4"	9	17.25	16.39
57 DX 509C	WB-212SL	133/4x16x61/4"	8	17.25	16.39
57 DX 827C		133/4x16x61/4"	9	19.65	18.67

New "Petite" System

Ultra-compact 2-way speaker system with Jensen-designed woofer/tweeter. Gives deep, rich bass, clean highs. Use anywhere-shelf, table, wall or floor. Has brass legs and wall hangers. Includes volume control recessed in side. Uses screw terminals, polarized for stereo, 18x12x33/4". Hand-rubbed oiled walnut. Capacity, 6 watts. Impedance, 8 ohms.

57 DX 828.....NET 24.40



Selected Public Address Speakers and Line Transformers

STANDARD SPEAKERS AT SPECIAL PRICES

selection of low-cost, utility speakers ideally suited for indoor A. use and replacement. Impedance, 3.2 ohms. Made in U.S.

tock No.	Size	Watts	Magnet Wt.	Lbs.	1-11, EA.	12-UP, EA.
7 D 593	8"	8	2.15 oz.	11/2	3.29	2.91
7 D 594	8"	10	3.16 oz.	3	3.68	3.19
7 D 595	8"	12	6.8 oz.	4	5.15	4.41
7 DX 533		12	3.16 oz.	4	4.97	4.32
7 DX 534		15	6.8 oz.	5	6.31	5.46
7 DX 535	12"	25	10.0 oz.	3	8.19	7.11

LINE-TO-VOICE-COIL TRANSFORMERS

25 volt; †70.7 volt. Sec. imp. 4, 8, 16 ohms. Av. wt., 1 lb.

tock No.	Watt Taps	Size	1-11, EA.	12-UP, EA.
7 D 820	†5, 2.5, 1.25, .62, .31	1/2×3/8"	1.85	1.69
7 D 821	The state of the s	5/8×5/8"	1.99	1.85
7 D 822 7 D 823		5/8×5/8" 7/8×7/8"	1.99	1.85

QUALITY P.A. SPEAKERS

Rugged speakers featuring Alnico V magnets, heavy, baked aluminum enamel finish, Adjust-A-Cone suspension for precise voice-coil centering. All are 8-ohm impedance. With transformer mounting bracket. 8A6PAOT is weatherproofed. *Ring-type magnet.

Stock No.	Mfr's Type	Size	Watts	Magnet Wt.	Lbs.	EACH
57 D 650	8A21PA	8"	8	2.15 oz.	11/2	4.82
57 D 651	8A31PA	8"	10	3.16 oz.	2.	5.59
57 D 654	8A4PA	8"	12	4.64 oz.	3	6.47
57 D 655	8A6PA	8"	12	6.8 oz.	4	7.64
57 D 599	8A6PAOT	. 8"	12	6.8 oz.	4	8.06
57 DX 536	12A31PA	12"	12	3,16 oz.	4	7.03
57 DX 537	12A4PA	12"	15	4.64 oz.	4	8.38
57 DX 538	12A6PA	12"	15	6.8 QZ.	4	9.38
57 DX 539	12A10PA*	12"	25	10.0 oz.	4	11.73



soundolier

Ceiling and Wall-Mounting Baffles







BUY IN BULK AND SAVE!

Take advantage of lot-price savings on Soundolier ceiling/wall baffles.

A MODEL 51-8 TRIM RING BAFFLE. Low-cost steel baffle for extremely fast installation. Offers attractive flush appearance when installed-may be painted to suit any decorative motif. Requires 8½" hole in ceiling. For use with 95-8 protective enclosure, right. Outer dia., 12¾". Shpg. wt., per pkg., 1 lb. 5 per package.

B NEW MODEL 210-8 WIDE-ANGLE SURFACE CEILING BAFFLE. Mounts in outlet box or ceiling. 18-gauge aluminum steel grille; white outer finish. Acoustical horn design for wide response. Takes 8" speaker. 4½x14½" dia. Wt., 4 lbs. 57 DX 834. 5-Up, EACH......11.00 1-4, EACH......12.54

57 DX 835. Model 210-12 Baffle. As above, for 12" speaker. 61/2x 181/4" dia. 61/2 lbs. 5-Up, EACH..... 13.50 1-4, EACH..... 15.39

C MODEL 169-8 TRIM SQUARE BAFFLE. 24-gauge steel; white. Mtg. hdwe.; less spkr. Fits 193-8 below. 10 ½" sq. 1 ¼ lbs. 57 DX 554. 5-Up, EACH.......2.08 1-4, EACH.......2.37

MODEL 193-8 ENCLOSURE. All-welded, undercoated, rust-resistant. 4 conduit knockouts. Less spkr. 9 1/8 x 9 1/8 x 3 1/4". 3 1/4 lbs.

57 DX 555. 5-Up, EACH......3.47 1-4, EACH......3.96

MONEY-SAVING SPEAKER-BAFFLE PACKAGES



Consist of baffle, 8" speaker and transformer. Utah speaker has 3.16-oz. magnet; 40-15,000 cps response. Transformer has 2 /1 /.5 ohms, 70.7-v. taps.

Stock	Mir's	Includes	Wt	NET	EACH
No.	Type	Baffle No.	Lbs.	1-4	5-Up
57 DX 837	PK-51-8	51-8	31/6	9.18	8.05
57 DX 838	PK-61-8	61-8	31/4	9.94	8.56
57 DX 829	PK-67-8	67-8	4	11.33	9.95
57 DX 830	PK-68-8	68-8	31/8	13.72	12.04
57 DX 831	PK-169-8	169-8	3	9.18	8.05

D NEW MODEL 23-8 SURFACE CEILING BAFFLE. Low ceili brushed aluminum baffle, designed to eliminate beaming Ported body gives extended bass response. Jute lining undercoating and concentric reinforcement rings prevent m chanical and acoustical resonances. Mounts directly to ceiliwith 4 toggle bolts. Takes 8" speaker. Size, 51/2x161/4" diameter Shpg. wt., 4 lbs.

57 DX 836. 5-Up, EACH......11.00 1-4, EACH......12.5

SERIES 95 PROTECTIVE ENCLOSURES. Protective enc sures (cans) for installation in new or existing ceilings. install in existing ceilings, enclosures are mounted through fo holes in flange. For new construction, 4 straps allow use in a thickness of plaster. Have undercoating, jute lining. Less spi

Stock No.	Model	For Use With:	O,D.	Depth	Lbs.	1-4, EA.	5-Up, E.
		61-8, 67-8, 68-8		41/4"	7	4.86	4.26
57 DX 551	95-12	61-12	145%"	7"	8	7.01	6.15

F SERIES 61 TRIM RING BAFFLES. Highly polished, 20-gauge steel trim ring baffles. Offer attractive flush appearance who installed; will not buckle or "give" when bolts are driven in place. Less speaker. Hole size required: 61-8, 81/2", 61-12, 121/2".

Stock No.		Speaker	Enclosure	O.D.	Lbs.	1-4, EA.	5-Up, E/
57 DX 548		8"	95-8	123/4"	11	2.95	2.59
57 DX 549	61-12	12"	95-12	17"	, 1	7.01	6.15

G MODEL 67-8 LOUVERED BAFFLE. Similar to air diffusers appearance. Welded construction; vibration and rattle-fre For 8" speakers only. O.D., 12". Hole size required, 101/4". Use wi 95-8 enclosure, above. Shpg. wt., 11/2 lbs. 57 DX 546. 5-Up, EACH.....3.98 1-4, EACH......**4.**5

H MODEL 68-8 LOW-CEILING BAFFLE. Attractive styling. Ha satin-brushed aluminum sound diffractor to avoid beaming low-ceiling use. For 8" speakers. O.D., 123/4". Requires 81/2" hol Use with 95-8 enclosure, above. 2 lbs. 57 DX 547. 5-Up, EACH......6.07 1-4, EACH......6.9

• Front Door Communication from Any Room in Your Hom

NEW! GUARDIAN "Protecto-Com"... Serves You 2 Ways









Heat Sensitive Thermostats

THERMOSTATS

System includes four place-anywhere, U.L. Approved, fire detection thermostats. Three Type FB-2 thermostats trigger alarm at temperatures over 140°; one Type FB-3 thermostat triggers alarm at temperatures over 200°.

2-STATION INTERCOM/FIRE DETECTION UNIT

• Fire Detection System—Sets Off Loud Alarm Through All Unit Completely Transistorized; Operates from Chime Transforme

MODEL PC-12A. Security—convenience -fire detection-all at low cost! Flick a switch to learn the identity of callers at your door; press a button to admit them. Add an extra indoor remote station for 2way communication within the home, besides front door monitoring. Incon-spicuous, U.L. Approved fire detection thermostats set off alarm signal through all stations at first sign of fire.

System includes: transistorized Amplifier-Fire Oscillator; one IR-6 Indoor Remote Station; one OR-1 Outdoor Remote Station; three FB-2, One FB-3 Fire Detecting Thermostats; 50 ft. of 6-cond. Wire; 150 ft. of 2-cond. Wire. Any number of additional thermostats, or indoor outdoor remotes may be added. System requires no power outlet; operates from your doorbell transformer. Intercoms may be surface-mounted with RH-4 Mount, below. Gold-anodized aluminus stations, :6x4½x2"; thermostats, ½x15 dia. System shpg. wt., 9 lbs.

58 RX 001......NET 61.4 58 R 002. IR-6A Indoor Remote Station

58 R 003. OR-1 Outdoor Remote Station

58 R 028. FB-2 Thermostat. Trips at 140

58 R 005. FB-3 Thermostat. 200°....2.8 58 R 006. EP-3 Emergency Power Supply Includes battery—plugs into amplifie Automatically activated if power fails; ha

58 R 007. RH-4 Surface Mount. 1/2 lb.1.4

58 R 008. AW-9 8-Cond. Cable. 150'.5.0 58 R 009. AW-10 8-Cond. 500 ft.

Custom Built-In Radio-Intercoms for the Home





DELUXE FM-AM MASTER Ner \$10097



odel 2031 5-STATION AM RADIO-INTERCOM SYSTEM. ays music through any remote. Remotes can call each other, side stations have vol. control, privacy switch. Master has nono input. 8 station capacity. Includes: Master; three hodel 2025 Inside Remotes; Model 2006 Door Remote; 200 of Cable; Antenna. Master panel 16x8 3/x1 5/6"; box is 7 5/x14 3/x 4. Remotes described below. For 110-120 v., 50-60 cycle AC. 1pg, wt., 21 lbs.

RU 038...... NET 73.28

DELUXE AM "BROADCASTER"

RX 084. Model 2054. Same as above, thropper finish panel...., NET 55.65

Flush mtg. 5" speaker, vol. control, ivacy switch. Sand and gold. Panel, 16x65%6"; box, 8 1/8 x5 1/4 x1 3/4". Wt., 2 1/4 lbs.

RX 034. NET 5.67

RX 035. 2025 Economy Remote. As bove, but 4" speaker. Wt., 2 1/4 lbs. NET 4.68

NEW 2419 DELUXE HI-FI SPEAKER SYSTEM. 12" woofer, two 3 ½" veeters. For complete intercom and dume control, use with 2416 Remote ontrol below. 2813/6x175/6x4". Oil walnut. RX 081. Shpg. wt., 28 lbs... NET 59.97 RX 082. 2416 Inside Speaker Remote ontrol. For above; with rough-in box. 1/2/x4 ½". Shpg. wt., 5 lbs.... NET 19.84



MODEL 2058 DELUXE FM-AM BROADCASTER. Magnificently styled, this radio-intercom master station distributes FM or AM programs to up to 10 individually selected remotes. Remote stations can originate calls and converse with one another. Automatically lowers music volume during calls. Transistorized intercom amplifier for silent, hum-free background; has phono input, tone control. 4x8" speaker. Easy to install. Copper-anodized aluminum panel is 15 ½x10", extends 211/6" from wall; box is 713/2x 14 ½", fits new 2" walls. 8 tubes, 1 transistor. With antenna wire; less remote stations, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

58 RX 032..... NET 100.97

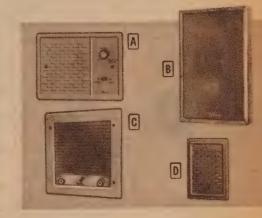
58 RX 033. Model 2057. Same as above, but front panel of silveranodized aluminum......NET 100.97

D 58 RX 036. 2006 Door Remote. Listentalk switch; 3" speaker. Gold panel, 45/16×5 ½"; box, 5 ½×45/16×1 ¾". 1 ¾ lbs. .5.00

58 RX 042. 2411-A Rough-In Frame. For above. 12 ½ x20". 1¾ lbs.........NET **1.51**

3-CONDUCTOR INTERCOM CABLE 58 RX 039, 200' Roll, 2 lbs.........4.48 58 RX 040, 1000' Roll, 4½ lbs......16.33 58 RX 085C. Door Chime. Walnut or Limed Oak finish—specify. 6 lbs. NET 22.18

58 RX 083.50' Roll of 8-Conductor Cable. Use with 2416 Remote, left.....NET 3.97



TALK-A-PHONE All-Transistor Intercom System

CENTRAL MASTER AND STAFF UNITS

ommunicate with up to 8 stations. Each system requires a Cenal Master unit and either a 4F6H 9-Volt Battery or an HI-PS AC ower Supply. Other stations may be any combination of Staff nits and Indoor or Outdoor Subs. Staffs and Master(s) can originate calls to and converse with any station. Subs do not originate alls, can talk with any station except another Sub. All feature rivate or non-private operation, except outdoor Subs, non-private. When set for private use, station must press switch to be eard; in non-private use, need not press switch. HI-9R Central faster lets any station except Outdoor Sub hear AM radio prorams. Gold and satin-silver finished panels. Flush mounting central masters, Staffs include 4%x141/6x31/2" plaster rings. Masters have 151/x51/2" front panel.

II-9 CENTRAL MASTER. 8-station capacity. 7 lbs. List, \$99.50.

8 RX 078. NET 58.00

CABLE REQUIREMENTS. Central Master and Staffs: Use 6226 able. Measure from 1st unit to 2nd, 2nd to 3rd, etc., and total. Or, use a junction box, which may be placed anywhere, and measure from each station to junction box. Subs: Connect to nearest Staff or Central Master. Use 6206 cable for Indoor Sub, 6202 for Outdoor Sub. Battery or power supply: Connect to Central Master with

202 cable.

9W 615. 6226 CABLE. 12 lbs. per 100'.....NET PER FT. 28 c

9W 621. 6202 CABLE. 4 lbs. per 100'.....NET PER FT. 3½c

9W 622. 6206 CABLE. 3 lbs. per 100'....NET PER FT. 8½c



SUB-STATIONS AND SYSTEM ACCESSORIES

HI-SM HOUSING ASSEMBLY. Permits Central Master or 8-station staff to be placed on table, mounted on wall, installed on cabinet. 6x15½x4". 2½ lbs.

FANON-MASCO **ALL-TRANSISTOR**

2-STATION WIRELESS INTERCOM

FW-40. No wiring or warm-up time necessary-just plug each station into an AC outlet and begin talking. You can even communicate between nearby buildings on the same line transformer. Beige and gold plastic cases, 43/483/4x53/4". For 110-120 v., 50-60 cycle AC. Wt., 7 lbs.

58 RX 106. List, \$89.95.....NET 52.87 58 R 107. Extra Station. 3 lbs... NET 27.20 58 RX 108. FW-50B. Asabove, but high-58 R 109. Extra Station. 3 lbs. .. NET 31.61



4404. Easily installed and transistorized, consisiting of: one 5-station Master; 3 indoor and 1 outdoor remotes; complete installation package. Operates from one 9-v. battery. Allows 2-way conversations and monitoring. Wall space: Master, 4\%x 10\%x3\%"; Remote, 3\%x5\%x2"; Panel: Master, 5\%x11\%"; Remote, 4\%x6\%". Chrome. Less battery, below. 16\lbs. 58 RX 139. List, \$89.95.....NET 52.77

58 R 140. BC Extra Indoor Remote. For use with above. Shpg. wt., 1 lb....5.83

80 J 666. 9-v. Battery. 3 oz.....NET 1.26



RB-1. Hear your child's voice from the bedroom or playroom through any AM radio. Just plug "Baby-Com" into an outlet. Blue and pink case. 4½x65/8x45/8". For 110-120 v., 50-60 cycle AC-DC. 41bs. 58 R 134. List, \$24.95.....NET 14.65

Intercoms for Modern Living



FX-2B. Dependable, budget-priced inter-

com system offering clear intelligibility and attractive styling. Consists of Master, Remote and 50 ft. of 3-cond. cable (add

more if desired—see 47W362, below right).

Remote needs no power-place it any-

where. Two-tone beige and gold styrene

2-STATION INTERCOM

> cabinets. Size: 8 1/2 x 4 1/4 x 5 3/4". For volts, 50-60 cycle AC o proved 6 lbs. \$5 Monthly 58 RX 110. List, \$39.95... 58 RX 110. List, \$39,95 NET 23, FSB EXTRA REMOTE. With 50-ft. 3-cd cable. Attach to Master. 2 lbs. 58 R 111. List, \$13.25.....NET 7

'MANAGER' SERIES Reg. \$140.52 Remote **SAVE \$10.57**

INTERCOMS

SPECIAL OFFER!

Order 6 FX-6B Masters, and save \$10.57 on this system. You get 6 stations for only \$129.95!

Master

ALL-MASTER SYSTEM. Up to 6 FX-6B (or 11 FX-12B) Masters. Can handle up to 3 (or 5) simultaneous private conversations. FX-12B can call all stations at once, and can be made non-private. 7-cond. cable for FX-6B; 1 twisted pair for each FX-12B.

MASTER-REMOTE SYSTEM. An FX-6B Master and up to 5 Remotes, or an FX-12B and up to 10 Remotes. Remotes cannot call each other. FX-6B uses 3-cond. cable to each Remote; FX-12B uses 1 shielded cable plus 1 conductor for each Remote. FX-6B, FX-12B and FCB in two-tone beige. 83/4x43/4x53/4". For 110-120 v., 50-60 cycle AC. Less cable.

FX-6B 6-STATION MASTER. Shpg. v 31/2 lbs. Order 6 and Savel 58 R 112. List, \$39.95...NET Each 23.4

FX-12B 12-STATION MASTER. Sho wt., 4 lbs. List, \$47.50 58 R 105..... NET 27.

MODEL FCB REMOTE. 2 lbs. 58 R 115. List, \$13.95.....NET 8.2

INTERCOM CABLE, Indoor-outdoor tve

Stock	No.	Cond.	Wt.,	100'	NET PER
47 W	793	1 (shld.)	11/4	lbs.	3.09
47 W				lbs.	2.43
47 W			41/2	lbs.	6.03
48 W	894	18	61/2	lbs.	7.94

MULTI-CHANNEL TELEPHONE INTERCOM SYSTEMS



ALL-MASTERSYSTEM. Up to 11 phone Full trunkage. Permits as many 2-w channels as there are pairs of phone

MASTER-REMOTE SYSTEM. Up to Master and 10 Remotes. Has single, col mon-talking line, but Master can set conferences with Remotes.

INTER-MIX SYSTEM. Allows use multiple Masters. Each Master takes up 11 Remotes, less no. of Masters.

101 REMOTE. Similar in appearance

above, but less dial. Wt., 3 lbs. 58 R 099. List, \$47.50.....NET 27.9

58 R 101. PSA Power Supply. Use one f every 6 phones. For 110-120 v., 50-60 cyc AC. 4 lbs. List, \$29.95.....NET 17.

CABLE. All-Master: 1 twisted-pair, plus 1 pair per phone. Master-Remote: 3 condutors, plus 1 conductor per phone. Intermix: Combination All-Master and Master-Remot

CABLE FOR ALL-MASTER SYSTEM AND MASTER-REMOTE SYSTE

Stock No.	Pairs	Lbs. Per 100'	Per Ft.	100' or more, Per 100'	Cond.	Lbs. Per 100	100-Ft, St	NE"
48 W 892 48 W 759 48 W 893 48 W 894 48 W 898 49 W 845	3 4 6 9 11 13	3½ 4 4¾ 6½ 8	5¢ 5¢ 7¢ 9½¢ 13¢ 15¢	3.82 4.26 5.88 7.94 10.73 12.15	4 5 6 7 8 9	21/4 21/2 4 41/2 43/4 5	47 T 370 47 T 380 47 T 310 47 T 320 47 T 330 47 T 340	2.9 3.6 5.2 6.0 6.2 7.0

ersatile Intercom Systems

LL-TRANSISTOR "INTERCOMPACT" SYSTEMS

60 MASTER-REMOTE SYSTEM. Consists of: one Remote one Master (accepts up to 3 Remotes); 50 ft. 3-cond. cable; ninal box and hardware. Remote needs no outlet and can call ter. In pleasing Desert Sand finish. Master and Remote, 4x63/4x For 110-120 volts, 60 cycle AC.

ADDITIONAL REMOTE. Shpg. wt., 2 lbs.

R 016. 3-Cond. Cable. Wt., 41/2 lbs...........PER 150 ft. 1.95

R 017. 3-Cond. Cable. Wt., 15 lbs.....PER 500 ft. 6.50

65 ALL-MASTER SYSTEM. For up to 7 stations. Stations be private or non-private and can call one or all others. Less le, below. With terminal box and hardware. Powered by -66 Power Supply (below). Desert Sand finish. 4x63/4x55/8".

-65 MASTER. Up to 7 for All-Master System, 3 lbs R 014. List, \$25.50.....NET 17.20

-66 POWER SUPPLY. For 110-120 v., 60 cycle AC. Transiszed. Size, 3x5x13". One required per system. 5 lbs. R 015. List, \$45.75......NET 30.80

R 018. 9-Cond. Cable. Wt., 13 lbs...........PER 250 ft. 21.40

ALL-TRANSISTOR WIRELESS INTERCOM

-Way Conversation **fonitoring Facility**

- Desert Sand Finish
- Minimum Interference

50 TWO-STATION INTERCOM. Draws less current than an ctric clock. Accepts any number of extra stations (see below) same line transformer. Has press-to-talk switch with lock ntrol. Size of each station: 4x63/x55%". For 110-120 v., 50-60 le AC. Shpg. wt., 5 lbs. \$5 Monthly

RX 031. List, \$75.25.....NET 52.75

R 102. Extra Station. 3 lbs. List, \$37.60.....NET 26.38

R 103. Wall Mtg. Bracket. 3 oz. List, 50c.....NET 35c 2-70 WIRELESS PAGING MASTER. Plugs into AC outlet to y number of speakers (below) on same transformer line. For

)-120 v., 60 cycles. 4x63/4x55/". Shpg. wt., 21/2 lbs. R 010. List, \$43.25.....NET 29.25

2-71 HORN SPEAKER-AMPLIFIER. For use with CP-70 Mas-. All-transistor. Has screwdriver-type volume control and builtsquelch control. With 8-ft. cord. Spun aluminum-swivels

0°. Mtg. plate space, 9". Shpg. wt., 6 lbs. R 011. List, \$60.75.....





TALK-A-PHONE Wireless Selective Systems

TWO-STATION WIRELESS SYSTEM

LC-33. Just plug each station into any itlet on the same power company line ansformer and you establish instant immunications. "Uni-Trans" switch perits dictating or listening. Cabinets are autifully finished in charcoal gray and ushed chrome-resist effects of liquids and air. Each unit, 31/4x101/2x83/4". For 110-120 volts, 50-60 cycle AC or DC. Shpg. wt., 16 lbs. \$5 Monthly

58 RX 056. List, \$138.00.....NET 79.90
T-LC-17 ADDITIONAL STATION. Add .. NET 79.90 any number-same as above units. 8 lbs. 58 RX 057. List, \$69.00......NET 39.95

NEW ALL-MASTER SYSTEMS

LCM MASTER STATION. Any Master in call any other, or selectively, all gether. Charcoal gray and chrome finh. Plug each into outlet on same transrmer line. 3 1/8 x 14 x 8 3/4". For 110-120 v., 50-60 cycle AC-DC. U.L. Approved. T-LCM 8906. To 6 stations. 10 lbs. 58 RX 043. List, \$136.00.....NET 79.50 T-LCM 8912. To 12 Stations. 12 lbs. 58 RX 050. List, \$154.00.....NET 89.80

NEW MASTER-AUXILIARY SYSTEM

-LCS. Consists of one or more T-LCM asters and any number of auxiliary staons, below. Auxiliary is on fixed channel can reply but not originate. System fers selective area paging without exensive installation costs. Place one or ore channel 1 auxiliaries in one room, ne or more channel 2 in another, etc. laster can then page any area. Last digit type no. of auxiliary indicates chan-

58 RX 044. T-LCS-901.

58 RX 045. T-LCS-902.

58 RX 046. T-LCS-903.

58 RX 047. T-LCS-904.

58 RX 048, T-LCS-905.

58 RX 049. T-LCS-906.

nel. 31/x101/x83/4". For 110-120 v., 50-60 cycle AC-DC. Wt., 7 lbs.

List Each, \$77.00

NET EACH,

45.00



WITH "SONIC GATE" Your voice goes through while hum and line noise are screened out.

... Advance-Design Intercom Systems



ALL-MASTER SYSTEM. An instantoperating intercom system, using up to six TIA-6, or up to twelve TIA-12 Masters. Any Master can call any other and, in a TIA-6 system, all simultaneously. Each Master has volume control, press-to-talk bar, and selector switch with "mute" position. All-transistorized. 3x8 ½x6". Less cable (below)-use cable with one more conductor than the number of stations. For 110-120 v., 60 cycle AC.

MASTER-REMOTE SYSTEM. Consists of one TIA-6 Master and up to five RIA-1 Remotes; or one TIA-12 Master and up to 11 Remotes. Master can call any Remote, and in a TIA-6 system, all simultaneously. Remotes have press-to-talk bar, but can be used for non-private operation (controlled by jumper). Remotes can originate calls to Master. Size of Remotes, 3x8 1/2x6". Less cable (below)-use 3-conductor cable between Master and each Remote.

INTERMIX SYSTEM. TIM-12 Intermix Master Stations are used in systems with a total of 12 stations in any combination

of Masters and Remotes. Use either TIA RIM-6 Remotes. RIM-6 Remote can initi calls to any one of six TIM-12 Maste RIA Remotes, only to one Master.

TIA-6 6-STATION MASTER. Wt., 4 58 R 019. List, \$54.40.....NET 34. TIA-12 12-STATION MASTER, 4 lbs.

58 R 020. List, \$63.75......NET 38 RIA-1 REMOTE. Calls only 1 Mas Called by any Master. 3½ lbs. 58 R 021. List, \$17.40......... NET 10

TIM-12 INTERMIX MASTER. Pern mixing any combination of Masters at Remotes up to 12. Wt., 4 lbs.

58 R 022. List, \$78.40......NET 47

RIM-6 REMOTE. Originates calls to a of 6 Masters. Wt., 4 lbs.

58 R 023. List, \$39.00.....NET 23

CABLE FOR INTERCOMS

48 W 825. 3-cond. 2 lbs.....Per 100' 5 48 W 759. 8-cond. 41/2 lbs...Per 100' 4 48 W 894. 18-cond. 8 lbs. . . . Per 100' 7



POPULAR BOGEN "TQ" PHONE SYSTEMS

Selective ringing with common talk-line—permits conference calls. Supplied less cable and power supply (below). Select phone cable with 3 conductors more than number of phones.

Size, 9½x3¼x3¼". 58 R 116. 2—TQ-1 Phones. 5 lbs. List, \$51.45...PER PR. 38.60

58 R 118. TQ-6 Selective Ringing Phone. Up to 7 stations. 6 push-

58 R 119. TQ-12 Selective Ringing Phone. Up to 13 stations. 12

58 R 133. PRS-1 Power Supply. 4x6x15/8". For 110-120 v., 50-60

TRA PUSHBUTTON PHONE-PAGE ADAPTER. Adapts Bogen phones for paging through your P.A. system (use 3-cond. cable, below). Can handle music equipment, Powered by PRS-1 power supply (listed above). Size, 4x4x2". Wt., 2 lbs. \$5 Month! 58 R 126. List, \$42.20......NET 31.65

PRS-5 MULTI-MIX POWER ADAPTER. For combining TQ-6 or TQ-12 phones with up to 5 remote P.A. speakers and P.A. amplifier. Furnishes power and includes one relay. Accepts 4 more relays (below—one for each remote speaker). Size, 7x11x 6". For 110-120 v., 50-60 cycle AC. 10 lbs. \$5 Monthly.

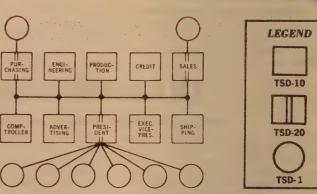
58 RU 030. List, \$147.37......NET 88.42

POWER AND PHONE CABLE

3-cond. for connecting power supply to system. Will provide top performance over 500' from supply to farthest phone.

Stock No.	Cond.	Lbs. per 100'	PER FT.	Per 100'
48 W 879	3	4	21/24	1.91
48 W 892 48 W 893	12	31/2	5¢ 7¢	3.82
48 W 894	" 18	63/4	91/24	7.94
49 W 845	26	11	15¢	12.15





SERIES TSD BOGEN-PHONES

An extremely flexible phone system adaptable to any need, as offering private (no eavesdropping), multi-conversation. Maste can converse with each other privately (up to 5 simultaneo private conversations in 10-phone system—10 in 20-phone system), or with others together (TSD-10 can call up to 9 station individually or together; TSD-20 up to 19). TSD Remote call receive calls from any Master but initiates them only to Mast to which it is wired. Stylish phones can be used on desk or wa Sizes: Masters, 33/4x91/2x31/4"; Remote, 31/4x91/2x31/4". Use u shielded cable with 4 conductors more than the number phones. Connect Remote with 5-conductor cable. Only 1 PRSrequired for each system. Master's wt., 31/2 lbs.

58 R 024. TSD-10 10-Station Master. List, \$45.65... NET 34.2 58 R 025. TSD-20 20-Station Master. List, \$53.25..... NET 39.

58 R 026. TSD-1 Remote. 3 lbs. List, \$33.25......NET 24.

58 R 027. PRS-10 Power Supply. Size, 4x7". For 110-120



COMBINATION SYSTEMS

STERS AND SUBS. Master calls can private or non-private. Masters and R-2 Sub have steel cases in leatherure gray vinyl and chrome. T-LR-2M is finished in grained, baked enamel. R-2R, flush wall mounting Sub, has nless steel front panel. Sizes: Masters, (10 ½x8¾"; Desk Subs, 2 ½x7 ½x8¾"; t-in Sub: wall opening, 4 ½x4 ½x2" p; front panel, 41¾6" sq. Less cable, bw. For 110-120 v., 50-60 cycle AC-DC. Approved.

L-5 MASTER. For use with 5-station ems. Shpg. wt., 7 lbs.

RX 063. List, \$72.00......NET **42.00**

L-10 MASTER. For use with up to 10-

ion systems. Wt., 8½ lbs. **X 064.** List, \$87.00 **NET 51.00**

R-2 SUB. Shpg. wt., 5 lbs. RX 051. List, \$27.50.....NET 15.95

R-2M SUB. Shpg. wt., 5 lbs. RX 065. List, \$21.00.....NET 11.95

R-2R BUILT-IN SUB. Wt., 4 lbs

R 137. List, \$21.00.....NET 11.95

GH-POWER SUBS. See listings in Ac-

sory Box, below.

BLE. Use 6210 with T-CL-5 Masters,

6 with T-CL-10 Masters. 6902, Sub to

W 617. 6210 Cable. Wt., 6 lbs. 100 ft.....NET PER FOOT 14c

W 615. 6226 Cable. Wt., 12 lbs. 100 ft.......NET PER FOOT **28c**

W 613. 6902 Cable. Wt., 2 lbs. 100 ft......NET PER FOOT 2c

SYSTEM ACCESSORIES

SH-POWER SUBS. Answer Master; ginate calls with special switch, below

RX 067. Model TC-20. 9" Trumpet pe. 15 watts. 5 lbs. List, \$44.95 NET 26.50

RX 066. Model THP-3. 8" Indoor eaker. In charcoal gray metal baffle. 12x 2x18". Wt., 9 lbs. List, \$28.00. NET 16.50

R 120. Model TS-100. Origination vitch. Wt., 2 lbs. List, \$6.00...NET 3.50

RADLE PHONE. Choose a Master and in ice of Stock No., write "Special." Add "to Model No. Example: T-LM-5H, with

adle phone. Add \$35 to net price. R 125. Wall Mounting Brackets. For all bs, but T-C-20, T-HP-3. ½ lb. List, .25.....NET PER PR. 75c

MASTER-SELECTIVE SYSTEMS

STANDARD POWER. Subs can be private or not. T-LR-3M in baked enamel; others, leather-texture. Masters, 31/8x101/2x 8¾"; Subs, 3½x7½x8¾". T-LR-3R: panel, 7¾6x4¾6" w. Wall space, 6½x4½x2" d. For 110-120 v., 50-60 cycle, AC-DC.

T-LM-5 MASTER. Accommodates up to 5

Subs. Shpg. wt., 8 lbs. 58 RX 058. List, \$59.95.....NET 34.95 T-LM-10 MASTER. Accommodates up to

T-LR-3 SUB, Shpg. wt., 6 lbs.

58 RX 052. List, \$27.50 NET 15.95

T-LR-3M SUB. Shpg. wt., 6 lbs.

58 RX 062. List, \$21.00..... T-LR-3R BUILT-IN WALL SUB. 4 lbs. 58 R 138. List, \$21.00.....NET 11.95

HIGH-POWER MASTERS. Same as above, but 10 times the volume output. T-AC-5406 MASTER. Accommodates up

to 5 Subs. Shpg. wt., 8 lbs. **58 RX 060.** List, \$75.00.....**NET 44.00**

T-AC-5411 MASTER. Accommodates up to 10 Subs. Shpg. wt., 8 lbs. 58 RX 061. List, \$89.95.......NET 52.50

HIGH-POWER SUBS. See listings in Ac-

cessory Box, lower left of page.
5303 3-COND. CABLE. 3 lbs. per 100'.
49 W 604......NET PER FOOT 3c

SUPER-SELECTIVE SYSTEMS

SELECTIVE MASTER STATIONS. Highly versatile intercom systems consisting entirely of Master units. Any station can originate a call to any other station or stations-separate conversations can be handled simultaneously, and conference calls set up. Each Master has light to indicate when unit is in operation. Also has press-to-talk bar, slide switch and volume control. Steel case is smartly finished in bonded, leather-texture gray vinyl and brushed chrome. Stations can be placed more than 1000 ft. apart. Less cable, below. Size, 31/2×101/2×83/4". For 110-120 volts, 50-60 cycle AC or DC. U.L. Approved. Shpg. wt., 7 lbs.

MODEL T-LS-5. Up to 5 stations 58 RX 054. List, \$59.95..... NET 34.95

MODEL T-LS-10. Up to 10 stations

58 RX 055. List, \$75.00......NET 44.00

CABLE. For T-LS-5, use 5506. For T-LS-10, use 9911. To determine quantity, measure from 1st station to 2nd only, 2nd to 3rd only, etc., and total. Do not connect last station to first.

49 W 605. 5506 6-Conductor Cable. 4 lbs. per 100'.....NET PER FOOT 71/2C

49 W 603. 9911 11-Conductor Cable. 12 lbs. per 100'.....NET PER FOOT 14c



Costs Less Than 1c a Day To Operate



T-LC-2 TWO-STATION INTERCOM SYSTEM

A deluxe 2-station intercom system for home, office or plant. Includes one Master, one Sub and 50 feet of interconnecting cable (up to 2000 feet more can be added -see below). Master and Sub can originate calls to each other and communicate both ways. Sub can be set for private or non-private operation. Only Master needs to be connected to AC outlet. Master has volume control and pilot light; has steel case attractively finished in char-coal gray vinyl and brushed chrome. Case resists effects of weather and liquids. Sub's resistant steel case is finished in

matching baked enamel. Sizes: Master, 3 1/8×10 1/2×8 3/4"; Sub, 3 1/8×7 1/2×8 3/4". For 110-120 v., 50-60 cycle AC or DC. U.L. Approved. 13 lbs. \$5 Monthly.

58 RX 053. List, \$62.00 NET 36.00

T-LR-3M EXTRA REMOTE. Wt., 6 lbs. 58 RX 062. List, \$21.00.....NET 11.95

5303 CABLE. Add up to 2000 ft. Shpg. wt., per 100 ft., 3 lbs.

49 W 604..... NET PER FOOT 3c

WALL MOUNTING BRACKETS. 2 lbs. 93 R 049. List, \$1.25....NET PER PR. 75c

Garage Door Opener . . . Photoelectric Controls



ELECTRONIC GARAGE-DOOR OPENER

All-Transistor Remote Control

Net

- Automatically Control Your Garage Door, and Lights: From Your Car
- Install It Without Special Tools
- With All Hardware and Instructions

Touch a button-your garage door opens and the light goes on! Press the button again, or use the wall-mounted pushbutton, and the door closes and locks—and after a few minutes the light automatically goes out. Power shuts off automatically if door-travel is obstructed. Door can be operated manually at any time. Choose from two all-transistor control units—a pocket-size portable transmitter, or an under-dash transmitter with a dashboard pushbutton. Both units are crystal-controlled on the FCC-authorized frequency of 27.255 mc. Use this easy-to-install system with any overhead, residential-type garage door up to 18-ft. wide and 8-ft. high, using a horizontal or curved roller track. Requires only 21/4" clearance between high-arc of door and ceiling. Includes motor mechanism and receiver (for 110-120 v., 50-60 cycle AC), 1 transmitter (for 12 VDC), antennas, manual pushbutton, wire, hardware, and instructions.

G-654 SYSTEM. With under-dash transmitter, 65 lbs.

89 CZ 013J. List, \$224.95.....NET 149.50

89 S 015. Key Switch. With 2 keys. 9 oz......NET 4.20

PORTABLE TRANSMITTER UNITS

G-340 EXTRA TRANSMITTER. Has built-in antenna and clip for mounting on sun visor. 1 lb.

G-653 ALTERNATE-FREQUENCY SYSTEM. Like G-653 above; use where neighbor already has door opener.

89 CZ 020J. List, \$224.95.....

G-340 ALTERNATE-FREQUENCY EXTRA TRANSMITTER 89 SX 021 J. List, \$27.95.....



Garage light stays on 2-3

minutes after door locks

1/2-hp unit operates overhead residential d

UNDER-DASH TRANSMITTER UNITS

G-350 EXTRA TRANSMITTER. With hardware, dash-mour pushbutton, installation instructions. 3 lbs. 89 SX 022J. List, \$27.95.....NET 1

G-654 ALTERNATE-FREQUENCY SYSTEM. Like G-654 (ab left); use where neighbor already has door opener. 89 CZ 923J. List, \$224.95......NET 14

G-350 ALTERNATE-FREQUENCY EXTRA TRANSMIT 89 SX 024. List, \$27.95......NET 1



"PROTECT-O-LITE" LIGHT CONTROL

Silent, dependable photoelectric control that automatically turns on lights at dusk, shuts them off at dawn. Delayed-action feature prevents car lights or flashlights from turning off lights at night. A snap to install-just place it near a window facing outside, natural light, plug unit into wall outlet, and plug lamp(s) into unit. Handles 600-watt loads. Only 3x2 ½x1". For 110-125 v., 50-60 cycle AC. Shpg. wt., 1 lb. 77 P 364..... NET 7.99

WORNER "FOTOLECTRIC" UNIT

MODEL 61. Chime sounds when light beam is broken. Consists of "Fotolectric" unit, mirror and chime. Unit can be placed at any distance from 3-10' from mirror. 81/4 x6½x2¾". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 8 lbs.

77 P 028. \$5 Monthly......NET 40.50

77 P 023. Extra Bulb. For Models 33 and

77 P 035. Extra Chime. For above, or any 6 v. AC source. 2 lbs........ NET 4.80

HI-WAY-I HEADLIGHT DIMMI

Automatic headlight-beam changer automobiles. Aids night driving by a matically switching on "low" beam w cars are approaching—restores "h beam within ½ second after lights passed. Can also be actuated by tail-li of cars directly ahead. Can be overric by foot switch. Unaffected by street lig Has sensitivity control. With easy inst tions. For all vehicles with 12 VDC n tive ground. 3 lbs.
77 P 365. List, \$77.40.....NET 39



00K DUAL-HEAT SOLDERING KIT

- Gun, Solder-Aid, Brush, Solder
- Gun Has High/Low Heat Feature

erything you need for fast, professional Idering. Includes: Weller 8200, U.L. Apoved, dual-heat solder gun; solder aid ol; cleaning brush; coil of Kester "Res-Five" solder. "Triggermatic" control elects high (125 watt), or low (90 watt) at. Also has spotlight for illuminating ork area. For 110-120 v., 60 cycle AC.

npg. wt., 2½ lbs. N 280. List, \$7.95.....NET 5.83 11, EACH...5.19 12-Up, EACH...4.94

8250AK SOLDERING KIT

Includes Gun, Solder, 3 Tips, TipWrench, Plastic Case

Versatile, heavy-duty soldering kit for home or shop. Includes: Model 8250A 250watt gun (with trigger-control dual spotlights for illuminating dark work areas); coil of rosin-core solder; chisel-point tip; smoothing tip; tip-wrench. Plastic carrying and storage case, 7x10x3". For operation from 110-120 v., 60 cycle AC. Shpg.

49 N 000. List, \$14.95......NET 10.99 3-11, EACH., 9.77 12-Up, EACH., 9.28



catalog for no money down. Minimum order, \$20. See back of catalog for full details.

Lightweight, advanced design irons. "Magnastat" sensing devices in tips automatically maintain correct temperature, never overheat. Provide rapid, constant heat transfer for soldering ease. Have rubber shock absorber at end of handle. Less tips and cords, below. Select one of each for your specific application. U.L. Approved. For 110-120 v., 60 cycle AC.

Stock No.	Model No.	Watts	Wt. of Iron	List		6-23	ACH 24-UP
50 N 667 50 N 668 50 N 669	TC602	55 75 120	3 1/2 OZ.	\$7.24 \$7.50 \$8.50	5.52	4.90	4.41

WELLERTIPS FOR "MAGNASTAT" SOLDERING IRONS

Premium iron-plated copper. Av. wt., 3 oz.

Stock No.	Type No.	Description	For Model		T E.	ACH 24-Up
50 N 671 50 N 672 50 N 673	5-C1N	3/16" Scewdver 1/6" Scewdver 1/4" Scewdver	TC552	.56	.49 .49 .98	.44
50 N 674 55 N 675 50 N 678	12-G4N	3/16" Scewdver 1/16" Chisel 1/4" Scewdver	TC1202	1.49	1.31	1.18

CORDS FOR "MAGNASTAT" **SOLDERING IRONS**

3-wire cord is industrial type; 2-wire cord is standard type. With plugs. Av. wt., 5 oz.

Stock No.	Mfr. Type	Description	NET
50 N 511	CS40	2-wire for TC552, TC602	.73
50 N 512	CS50	3-wire for TC552, TC602	1.47
50 N 677	CS60	2-wire for TC1202	.73
50 N 678	CS70	3-wire for TC1202	1.47

WELLER SOLDERING GUN PARTS REPLACEMENT

Stock No.	Type	Descrip.	Use With Models	NET
46 N 625	7325	Tip nut	D-440, S-440, 8100, 8200, 8100B	.15
46 N 630 46 N 626 46 N 627	7417 7323 7324	Switch	D-550, S-500, 8250A All single-heat type All dual-heat type	1.22 1.37



MODEL D-550 SOLDERING GUN

or service shops, production line, etc. las dual spotlights. Trigger switch selects 00 or 275-watt heat. U.L. Approved. For 10-120 v., 60 cycle AC. 4 lbs. 6 N 641. List, \$16.25.......NET 11.71-11, EACH...10.53 12-Up, EACH....9.96

MODEL 8250A SOLDERING GUN

same as D-550 above, but 250 watts only.

CHISEL-POINT TIPS

per PK	g. Av	. snpg. wt. per pkg.,	S 02.
Stock No.	Type	Use With Models	PKG.
46 N 574	7135	WS-100, WD-135, S-400, D-440, 8100	.25
46 N 573	7250	WS-200, WD-250, S-500, D-550, 8250A	.35
46 N 587	7300	S-107, D-207. Not inter- changeable with above.	.25
50 N 200	8125	8100B 8200	.35

B MODEL D-440 SOLDERING GUN

Medium-duty, dual-heat gun. Trigger switch for 100 or 150-watt heat. Twin spot-

D MODEL 8100B SOLDERING GUN

High-quality 100-watt, single heat gun.

VERSATILE ACCESSORY TIPS

Stock No.	Type	Descrip.	For Models EACH
46 N 681	6110	Cutting	WS-100, WD-135, S-400, D-440,
46 N 682 46 N 683		Smoothing Cutting	8100 (B), 8200 WS-200, S-500, D-559, 8250A



General-Purpose and Industrial Soldering Guns, Gun Kits, Irons

199K SOLDERING GUN KIT

Multi-purpose solder gun kit. Includes Model 199-130-watt gun; three tips; 5-ft. roll of rosin-core solder; plus metal storage box. Gun reaches temperature in just 21/2 seconds! Well-balanced, has pistol-grip handle, spotlight, trigger switch. Tips are quickly interchangeable-include Model 19-B-4 standard tip for household wiring; Model 19-F-33 woodworking tip; Model 19-

100K SOLDERING GUN KIT

Features highly-efficient, transformertype, Model 100 gun. Develops full 100watt heat in 2½ seconds. With two tips. U.L. Approved. For 110-120 v., 60 cycle AC.

Shpg. wt., 2½ lbs. **50 N 191.** List, \$7.95. NET **5.83**3 or More, EACH. 5.19

250K SOLDERING GUN KIT



E MODEL 199-130-WATT GUN

Extremely popular, low-cost soldering gun. Ideal for production line use. Heats in just 21/2 seconds. Efficiency compares to guns of much higher wattage ratings. Long-life tip; spotlight. Lightweight, only 1½ lbs. Heat and shock-resistant red plastic case. 5" long less tip. U.L. Approved. For 110-120 v., 60 cycle AC. 2½ lbs.

REPLACEMENT TIPS. Wt., 2 oz.

No.	Туре	Description	NET
46 N 359	19-B-4	Standard Tip	35c
46 N 328	19-C-1	Plastic Cutting Tip	42c

F MODEL 288-200-WATT GUN

Economy-priced, heavy-duty soldering gun. Lightweight and balanced for fatiguefree use. Ideal for all types of heavy soldering work. Tip is ideal for many delicate jobs—gets into hard-to-reach places. Built-in spotlight. Case of high-

EXTRA TIP. For above. Wt., 3 oz. 46 N 331.....EACH 42c

G MODEL 100-100-WATT GUN

Efficient 100-watt gun. Reaches operating temperature in 21/2 seconds. Has builtin spotlight, trigger switch. Black plastic

H MODEL 250-250-WATT GUN

Low-cost, heavy-duty 250-watt soldering gun. Excellent for radio-TV repair work. Heats in 3 seconds; has built-in spotlight. Length, 61% with tip. U.L. Approved. For 110-120 v., 60 cycle AC. 4 lbs.

46 N 325. List, \$12.95 ... NET 9.52

3 or More, EACH ... 8.47

REPLACEMENT TIPS. Wt., 2 oz.

Stock No.	Mfr's. Type	Description	NET EA.
46 N 326	25-A-4	Standard Tip	17c
46 N 327	25-X-20	Feralcy Tip	35c
46 N 330	25-C-1	Plastic Cutting Tip	35c

U-4 FINE-SOLDERING TIP KIT

Low-cost tip kit for soldering and desoldering. Includes radio tip for Wen Models 100, 199, 288 and 250; 2 couplers; 5—10" tip extensions. 8 oz.

A B WALL SOLDERING IRONS

Excellent for delicate work, yet built f production-line punishment. 18HD (Fi A) is non-thermostatic; 14T (Fig. A) and the resolution of the second s 38T (Fig. B) have thermostatic active that gives the right heat for the jo Length: 18HD, 7": 14T, 8"; 38T, 12½". U. Approved. For 110-120 v., AC or DC.

Stock No. Typ	e Watts	Tip Wt.	1-5, EA.	6-Up, E
50 N 394 18H 46 N 852 14T 46 N 854 38T	40 to 125	1/8" 7 oz. 1/4" 7 oz. 3/8" 2 lbs.	5.78	5.31 5.31 6.60

REPLACEMENT TIPS

†Walloy-Red tips for production line us

Stock No.	Size	For	Wt.	1-5, EA.	6-Up, E.
46 N 874	1/8"	18HDt	2 oz.	.98	.90
46 N 875	1/4"	14T+	2 oz.	.98	.90
46 N 876	3/8"	38T†	3 oz.	1.15	1.05
46 N 873	1/8"	18HD	2 02.	.14	.13
46 N 872	74"	14T	2 oz.	.25	.23
46 N 855	1/8"	38T	3 oz.	.39	.36

C 863 "RADIOMAN" PENCIL

Slender 40-watt soldering pencil. Great for

50 N 597. Extra Tip. 2 oz. EACH 27

D "TRIG-R-HEAT" GUNS

Feature thermostatic action, light-weight transformerless design. Squeeze th trigger—heats in seconds, provides co rect wattage for job. Lightweight, balance for fatigue-free operation. Narrow 61 barrel for close work. Have interchange able tip elements. Black plastic housing U.L. Approved. For 110-120 v., AC or DO MODEL 212LT. 300-550 watts, ½" stee clad tip. 7-watt spotlight has separat control. Shpg. wt., 1½ lbs.

46 N 848.....NET 11.0

MODEL 214LTN. As above, but 150-40

TIP-ELEMENT ASSEMBLIES

*Fit 212LT, 214LTN; ffit 238LT, 238T.

Stock No.				1-5, EA.	6-Up, E/
46 N 870 46 N 849 46 N 897	*300-650	1/2"	1 lb.	3.75 5.87 2.94	3.45 5.39 2.70



MODEL 186P. Medium-duty 75-watt so dering iron. Removable 3/6" tip; temper ture ranges to 860°F. "Demon-Heet" el ment. 115/8" long. U.L. Approved. For 11 120 v., AC or DC. 3/4 lb.

50 N 2267. Extra Time

50 N 226. NET 1.4 50 N 227. Extra Tip EACH 2:



Ungar Soldering Pencils, Elements, Tips, Soldering Accessories

ELEMENT TIPS

Ungar 776 handle, 260 pistol. Types 533, 539, 1233—copper tips; 1236, 1239 d, silver-plated iron; 4033, 4036, 4039—iron-d, silver-plated copper. Types 1233, 13—15/x3/4" tip; 1239, 4036, 4039—11/8x tip; 536, 539, 1236—11/8x5/6"; 533—15/8x d. U.L. Approved. For 110-120 v., AC or Av. shpg. wt., 2 oz.

4 WATTS-650-700° F. TIP TEMP.

ock Mfr's			Description	NET EACH		
0.	Mfr's Type	Fig.	2000	1-9	10-Up	
400 582 585	533 536 539	BAC	Long Chisel Pyramid Chisel	98c	81c	

4 WATTS-750-800° F. TIP TEMP. Long Chisel Pyramid Chisel 1.18 98c

4 WATTS-850-1000° F. TIP TEMP. 647 4033 | B 648 4036 | A 649 4039 | C Long Chisel Pyramid Chisel 2.35 1.95

ELEMENTS AND TIPLETS

THREAD-IN ELEMENTS. Fit all Ungar handles and 260 pistol; tiplet threads into ment. 1235, 4035, 4045-nickel-plated el; 535-nickel-plated iron shanks. 535, 5, 4035 elements for 300, PL-300 Series lets, below. 4045 for 800 series de-solving tiplets, right. U.L. Approved. For 120 v., AC or DC. 2 oz.

ock		Mfr's	Tip		NET	EA.
io.			Temp.	Watts	1-9	10-Up
1 6	05	535	600-650°F	231/2	.98	.81
	09		700-750°F	371/2	1.18	.98
4 6	22	4035	800-850°F	47 1/2	2.35	1.95
4 1	05	4045	800-850°F	471/2	2.35	1.95

-300 PLATED TIPLETS. For sub-miniments above. Silver-plated, iron-clad opper. ½" O.D. 1" long except *1½", 1,1½", \$3,64" point. Wt., 2 oz.

ock	Mfr's			NET EACH		
lo. Type		Fig.	Description	1-9	10-Up	
4 496 4 497 4 101	PL-331 PL-332* PL-333 PL-338‡ PL-340†§	KGE	Pencil Offset Pencil Chisel Tapered Needle Micro-Needle	47c	39c	

UNPLATED TIPLETS. Same as PL300 ies above, but unplated copper.

606 607 608	331 332 333	K	Pencil Offset Pencil Chisel	16c	13c
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-800 PLATED TIPLETS. For general-rpose work. Use with 4045 element ove-thread into end. Silver-plated ironind copper. 3/16" O.D. for high heat insfer. PL-823 and PL-824 have 1" unreaded length; PL-833 and PL-834 have unthreaded length. Av. wt., 2 oz.

|--|

ELEMENTS, "MINI-TIPS"

For industrial use. Element shanks nickel-plated copper. PL tips silver-plated, ironclad copper; others unplated copper. For 110-120 v., AC or DC. U.L. Approved. Av. wt.: tips, 4 oz. per 10; elements, 2 oz.

N THREAD-ON ELEMENTS

	Mfr's			NET	EACH
****	Type		Watt	1-9	10-Up
50 N 402				1.18	.98
50 N 403	4037	\$50-900°F	471/2	2.35	1.95

"MINI-TIPS"

Stock	Mfr's	Fig	Tip	L. x	NET	EACH
No.	Type		Shape	Dia.	1-9	10-Up
50 N 404 50 N 405 50 N 406 50 N 407	PL-113	M L M L	Pencil Chisel Pencil Chisel	3/4×1/6"	59c 59c 20c 20c	49c 49c 17c 17c

P THERMO WIRE STRIPPERS Attach to element tips 4033, 4036 and

4039, at left, and Imperial No. 6200 series heat cartridges. 2 oz.

Stock No.	Type	Description	NET EACH
50 N 600 50 N 601	7951 7952	U-Slot Standard Hole	60c
50 N 602	7953	Hole-and-Slot	

DESOLDERING TIPLETSFor printed circuit work. Thread into 4045 element. Cups melt solder on socketsuse 854 for 8, 9-pin; 855 for 7, 8-pin; 856 for 5-pin. Slotted unit for tabs and leads; offset for close-to-board work; bar is for straight-line melting; triangle for electro-lytics. Drilled cube removes center pins of sockets, harness leads. 1 lb. per 10.

Stock	Mfr's			NET EACH	
No.	Type	Fig.	Description	1-9	10-Up
50 N 414 50 N 415 50 N 416 50 N 108	855 856	X X X Y	1" Cup 3/" Cup 5/" Cup Slotted	59c	49c
50 N 417 50 N 418 50 N 419 50 N 420	861 862	AA Z BB	Bar Triangle Offset Slotted Drilled Cube	59c	49c

CC NO. 270 DESOLDERING KIT For printed circuit parts. Consists of 776 handle, 3 cups, 1 slotted tiplet, 1 bar tiplet. Metal case, 1 ½x7 ½x4 ½". 1½ lbs. 50 N 109. 6-Up, EA. 4.76. 1-5, EA. . . 5.24

DD SOLDERING IRON HOLDER TYPE 8000. Makes soldering jobs safer and more efficient. Guard protects operator against burns. Adjustable, fastens to

wall, bench, etc. 8 oz.
47 N 024......NET 1.57

EE NO. 400 "KLEEN-TIP" KIT Removes oxides and excess solder. Includes special sponge, phenolic tray and bench bracket. 2 oz.

50 N 421. 10-Up, EA. 81c...1-9, EA. 98c NO. 455 REFILL SPONGES. 2 oz. 50 N 422. 10-Up, EA. 33c. 1-9, EA. . . . 39c

COMPLETE SOLDERING PENCILS

For subminiature work. With 776 handle and cord (listed below), and an element tip. 23 ½-watt Type 536 heats its copper pyramid tip 650-700° F. Type 1236 is 37 ½ watts, heats silver-plated iron, pyramid tip 750-800° F. 47 ½-watt Type 4033 delivers 850-1000° F. to a long chisel tip of silver-plated, iron-clad copper, U.L. Approved. For 110-120 v., AC or DC. 6 oz.

Stock			NET	EACH
No.	Fig.	Includes:	1-9	10-Up
50 N 302	R	536 Element-Tip	2.16	1.79
50 N 303	T	1236 Element-Tip	2.35	1.96
50 N 305	S	4033 Element-Tip	3.53	2.93

NO. 776 HANDLE AND CORD

For exacting industrial soldering requirements. Takes wide selection of thread-in elements and tiplets. Ideal for work on printed circuitry and sub-miniature systems. Durable, light-weight and fatiguefree; has stainless steel heat deflector, "Soft-Touch" cork grip, cord protector and phenolic housing. With 6-ft. cord. 5" overall length. Less tip and element, see listings at left. U.L. Appr. 4 oz. 10-Up, EACH.





Selected Soldering Irons, Kits And Accessory Equipment.



AMERICAN BEAUTY SOLDERING IRONS

Fit any soldering application. Special iron-plated tips, available for all models, greatly reduce pitting and redressing. Casing and body are one-piece seamless steel. Lightweight, shatterproof rubberoid-coated handles. 6-ft. cords. U. L. Approved.

MODEL 3128-60 WATTS

For light work. 1/2" copper tip. With stand. Length, 121/2". For 110-120 volts. AC or DC. Shpg. wt., 1 lb. 46 N 674.....NET 5.53 6 or More..... EACH 5.25

REPLACEMENT TIPS, ELEMENT For above. Type 9272 has mica insulation;

with spring, tube, terminal assembly.

Stock No.		Description	Oz.	NET
46 N 675 46 N 820 46 N 670	3728-IP	Copper-tip Iron-plated tip Element	3 6	.33 .75

MODEL 3138-100 WATTS

An excellent general purpose iron. 3/8" dia. copper tip. Chrome plated metal parts. Has cooling baffle; stand, 12 1/3". For 10-120 v., AC-DC. 21/4 lbs.

46 N 655. NET 8.47

REPLACEMENT TIPS, ELEMENT

Stock No.	Туре	Description	Oz.	NET
46 N 656	3738-IP	Copper tip	6	.46
46 N 821		Iron-plated tip	6	.86
46 N 666		Element	16	3.20

MODEL 3158-200 WATTS

For medium-heavy work. 56" copper tip. With stand. Length, 13 56". For 110-120 volts AC or DC. Wt., 3 lbs. 46 N 650.....NET 10.15 6 of More......EACH 9.65

REPLACEMENT TIPS, ELEMENT

For above. 5/8" tips. Element is chrome-nickel wire on mica insulated steel rod. Stock No. Type | Description | Lbs. | NET 46 N 652 3758 | Copper tip | 1 | 1.08 | 1.71 | 46 N 665 9275 | Element | 1 | 1.2 | 4.50 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

MODEL 3178-300 WATTS

For service and heavy-duty work. Length, $14\frac{1}{8}$; tip dia., $\frac{7}{8}$; net wt., $2\frac{1}{2}$ lbs. With cord, stand and tip. For 110-120 v., AC or DC. Wt., 4 lbs.

46 N 671.....NET 13.51 6 or More.....EACH 12.83

REPLACEMENT TIPS, ELEMENT

Stock No.	Туре	Description	Lbs.	NET
46 N 672 46 N 823		Copper tip Iron-plated Tip		2.15 2.78
46 N 673		Element		6.00



NEW LIGHT-DUTY 125-WATT SOLDERING KIT

MODEL KSG-125B-1. Includes: Model SG-125B 1.3 amp-gun with 5" long barrel. SG-125B 1.3 amp-gun with 5" long barrel-cleaning brush, wire twister, joint cleaner, roll of all-purpose solder. Transformer-type gun heats in 2½ seconds; ideal for reaching inaccessible spots. Has prefocused "sight-light", full-length soft-pull trigger. White, hi-impact, flame-resistant plastic housing. Length, 10½" with tip. Weighs 1¾ lbs. For 115 v., 60 cycle AC. Shog, wt., 4 lbs. Shpg. wt., 4 lbs.

49 N 250.....NET 5.67

MODEL SG-125B GUN ONLY. Above gun, with conical tip. Wt., 3 lbs. 49 N 251.....NET 5.00

TIPS FOR 125-WATT AND 250-WATT GUNS

Screw on in a jiffy-you need no tools.

Stock No.	Type	Description	Oz.	NET
49 N 252	47-83	Conical Point	1	.40
49 N 253	47-84	Chisel Point	2	.40
49 N 254	47-91	Needle Point	1	.80

NEW HEAVY-DUTY 250-WATT SOLDERING KIT

MODEL KSG-250-1. Includes Model SG-250 heavy-duty gun, conical tip, chisel tip, tile cutting and putty removing tip, roll of rosin core solder, heavy-gauge steel case.

SG-250 gun has all features of gun described at left, but is rated at 2 amps, has 5" long barrel, and black plastic housing. Positive pistol grip with soft-pull finger trigger. Weighs 2% lbs. Length, 11%" with tip. Wt. 5 lbs.

49 N 255..... NET 9.97

MODEL SG-250 GUN ONLY. Above gun, with conical solder tip. Wt., 3 lbs. 49 N 256..... NET **8.64**

BARRELS FOR 125-WATT AND 250-WATT GUNS

Stock No.	Туре	Length	Wt.	NET
49 N 257	ETS-1	35/4"	2 oz.	1.00
49 N 258	ETS-2	6"	2 oz.	1,34
49 N 259	ETS-3	8*	3 oz.	1.67
49 N 260	ETS-4	10"	4 oz.	2.00
49 N 261	ETS-5	12"	5 oz.	2.33

SOLDERING ACCESSORIES

MILLER MODEL 80 HEAT SI High heat absorbing copper ja Soft plastic handles. Wt., 2 oz.

49 N 378. List, \$1.25.....NET ..

G-C MODEL 9077 HEAT SINK, P tects parts from heat. Aluminur solder will not stick. Wt., 3 oz.

49 N 377.....NET .

Avoid finger burns! Feeds w solder from size .028" to .074" throu probe. Reloads in 30 seconds. 7" al handle. In metal case. Wt., 12 oz. 50 N 459..... NET 4.

ANTEX C-115 MINIATURE IRON

- No Transformer Required
- Constant 626°F. Temperature
- Ideal for Miniaturized Circuitry

Precision iron weighs less than 1 oz. He in 45 seconds. Insulation between ment and tip permits work around se conductors. Requires plug below. Len 61/2". Made in England. Wt., 3 oz.

50 N 427.....NET 4. 6 or More.....EACH

EAGLE MODEL 209 3-WIRE AC PLI For above, Shpg. wt., 3 oz. 50 N 316.....NET .

NICKEL-PLATED REPLACEMENT TI

For Antex C-115 iron. *Special heavy-d type. Wt., 2 oz.

Stock No.	Type	Size	1-49, EA.	50-Up,
50 N 474	Spade	3/4"		
50 N 287	Chisel	3/6"	E 4	40
50 N 283	Spade	/87	.54	.47
50 N 288	Chisel	1/0"		
50 N 284	Spade	5/4"		
50 N 289	Chisel	3/6"	- 4	4.0
50 N 285	Spade	3/6"	.54	.45
50 N 286	*Spade	3/6N		



LENK PENCIL-TYPE IRON

MODEL 251 25-WATT IRON, Ideal precision soldering—weighs only 2 Has 1/8" tip; plastic handle with cooli fins. Stainless steel; 71/2" long. For 110v., AC-DC. Wt., 1/2 lb. 46 N 940. NET 4.

MODEL 256. As above, but 40 watts.

46 N 941.....NET 4 REPLACEMENT TIPS. Either fits be irons above. Shpg. wt., 3 oz.

Allied Has Soldering Equipment for Any Application

.. For Radio-TV Servicing, Industry, Home Workshop



HEAT-REGULATING STAND AND SOLDER POTS

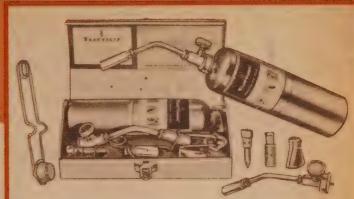
MERICAN BEAUTY MODEL 475 STAND. Thermostat maintains iron temperature. Iron cradle of copper alloy; plastic body. as heater cord and plug-in receptacle. For 80 to 660-watt irons; p to 240 volts, AC only. Shpg. wt., 2½ lbs.

N 658. NET 8.40

ECTROHM SOLDER POTS. Dipping pots for tinning wires, ads, etc. With 6-ft. detachable cord. For 110 v., AC-DC

tock No. Ty	pe Capac.	Watts	Size	Cup Depth	Wt.	NET
6 N 880 SP-	200 1% lbs.	200	23/4×23/6"	7/4"	31/4 lbs.	4.98
16 N 881 SP-	250 2 lbs.	250	33/4×2"	13/4"	3½ lbs.	4.98

IICKEL-CHROME REPLACEMENT ELEMENTS. Wt., 3 oz.



TURNER "LP-99" PROPANE-GAS TORCH KIT

Includes parts for both light and heavy-duty work. All brass torch has heavy-duty valve with drag spring on knob. Kit consists of; pencil-point burner; heavy-duty burner; brass flame spreader; copper, chisel-point solder tip; tank of fuel; spark lighter and steel case—size, 3x10 ½x6". Wt., 6½ lbs.

50 N 081. List, \$9.95......NET 6.65

"LP-555" TORCH ONLY. With pencil-point burner; tank of fuel. Wt., 4 lbs.
50 N 716. List, \$6.95......NET 4.35

REPLACEMENT FUEL TANKS. 2 per pkg. Wt., 5 lbs.

50 N 082......NET PER PKG. OF TWO 2.89



SOLDERING AIDS AND TOOLS

GHEMALLOY ALUMINUM SOLDER.

Joins surfaces without cleaning, 500° or thin metal; 800° for heavy work.

itock	No.	Unit	Temp.	Wt.	NET
		2-2 oz. bars 2-2 oz. bars		6 oz. 6 oz.	.59
0 N	085	2-2 oz. bars	800°	6 oz.	.59
		1-lb. bulk 5-lb. bulk		1 1/4 lbs. 5 1/4 lbs.	
		1-lb. bulk		11/4 lbs.	

G-C MODEL 9088. Has wire brush and holding end. Solder will not stick to chrome-tipped end. Wt., 4 oz.

12 N 901.....NET .98

Double ends ream, hold or pry.
Heat-treated tool steel. Chrome-plated—no solder sticking. Wt., 4 oz.

49 N 358. Straight End. (Fig. C)...NET .68 49 N 359. Angled End. (Fig. D)....NET .68

G-C MODEL 9093. For printed circuits. Stainless steel hardened—solder will not stick. Shpg. wt., 4 oz.

49 N 363. NET 1.00

F G-C MODEL 9094. Stainless steel brush, hardened scraper. 4 oz.
49 N 364.......NET .98



For Industry, Radio and TV Servicemen—and HomeWorkshop

KESTER SOLDERS

"RESIN FIVE" CORE SOLDER. Non-corrosive, non-conductive—for printed circuits. Coil 1/6" dia.; spool 3/2" dia. 40% tin, 60% lead. *60% tin, 40% lead.

Stock No.	Size	Net Wt.	Shpg. Wt.	NET
50 N 310	3/32"#	5 lbs.	5 1/4 lbs. 1 1/4 lbs.	7.47
50 N 310 46 N 916 46 N 900 50 N 311	3/32	1 lb. 1 oz.	1 1/4 lbs. 3 oz.	.21
50 N 311	1/16"*	5 lbs.		7.99

PRINTED CIRCUIT SOLDER. 60% tin, 40% lead. 1/4" dia. Wt., 1 3/4 lbs. 46 N 926. 1-lb. Spool...........NET 1.63

Stock	No.	Size	Net Wt.	Shpg. Wt.	NET
46 N			i lb.	1 1/4 lbs. 5 1/4 lbs.	1.19 5.73
46 N	930	1/16"	5 lbs. 1 lb.	1 1/4 lbs.	1.21
46 N		1/16"	5 lbs.	5 1/4 lbs.	5.88
46 N	939	1/15 14	5 lbs.	5 1/4 lbs.	6.86

ACID-CORE SOLDER. For general soldering other than electrical connections. \(\frac{1}{8}'' \) dia. 40% tin and 60% lead.

46 N 905. 1-oz. Coil. Wt., 3 oz... NET .21 46 N 906. 1-lb. Spool. 1% lbs... NET 1.19

SOLDER PASTE. 2 oz. cans. Wt., 5 oz. **46 N 915.** 10-Up, EA...**13** 1-9, EA...**15**



Ersin Multicore
Solders Feature
Separate Cores of
Flux...

"Dry Joints" Are Totally Eliminated

ERSIN SOLDERS

RESIN MULTICORE SOLDER. 5 cores non-corrosive flux −40/60 tin-lead. 1 lb. spools. Wt. per spool, 1½ lbs.

Stock No.	Gauge	EA., 1-27	EA., 28-Up
46 N 995	14 (.080")	1.42	1.28
46 N 991	16 (.064")	1.45	1.30
50 N 313	18 (.048")	1.48	1.33

PURE TIN/LEAD SOLDER. Non-corrosive Ersin flux is 60% tin and 40% lead.

Stock No.	Gauge	Spool Wt.	Shpg. Wt.	NET
49 N 368	16 (.064")	1 lb.	1% lbs.	2.07
49 N 369	16 (.064")	7 lbs.	8½ lbs.	14.21
49 N 370	18 (.048")	1 lb.	13/4 lbs.	2.12
49 N 371	18 (.048")	7 ibs.	81/2 lbs.	14.56
49 N 372	20 (.036")	1 lb.	1% lbs.	2,28
49 N 376	20 (.036")	7 lbs.	8½ ibs.	15.68

"SAVBIT" SOLDER. Copper-tin-lead alloy, Reduces copper tip wear by 90%.

Stock No.	Gauge	Spool Wt.	Shpg. Wt.	NET
50 N 121	14 (,080°)	1 lb.	1% lbs.	1.72
50 N 122	14 (.080")	7 lbs.	81/2 lbs.	12.11
50 N 123	16 (.064")	1 lb.	1% lbs.	1.76
50 N 124	16 (.064")	7 lbs.	81/2 lbs.	12.32
47 N 056	18 (.048")	1 lb.	13/4 lbs.	1.81
47 N 057	20 (.036")	1 lb.	13/4 lbs.	2.03



BLONDE TAPE SOLDER

40/60 tin-lead solder—rosin flux. Melts with heat of match. 28" long. Wt., 2 oz. 46 N 979. List, \$0.25...........NET .17



THOR "SUPER" COMPLETE 42-PIECE " DRILL KIT

Saws, Grinds, Drills, Sands, Buffs, Etc.

- Drill, 2 Saw Attachments, Accesso
- Burnout-Proof Motor; Ball Bearing

Complete home workshop. Ideal for ho shop, garage or farm. Powerful 21/2-a 1/4" power drill and attachments has hundreds of do-it-yourself projects. Di grinds, saws, sands, polishes, bu mixes paint, etc.

Thor No. 20 drill has self-aligning of bearings-husky motor will not burn Steel gear-type chuck takes 1/4" sha No-load speed, 2400 rpm; full-load, rpm. Trigger switch has locking pin. I is 7" long.

Kit contains: Thor No. 20 drill; 9 bits; drill-press stand; circular saw jig-saw attachment; steel saw ta 10 sanding discs; grinding wheel; vipolishing bonnet; cloth buff; rubber b ing pad; 6-piece arbor set; paint stir tool; steel post for use between saw to and bench; rugged steel carrying storage box with 4 saw blades.

Drill also has 3-wire cord and plug prong plug adapter. U.L. Approved. operation from 110-120 v., 60 cycle Shpg. wt., 20 lbs. 50 NU 537. List, \$42.50.....NET 29

Specially Designed for Allied — Thor-Speedway



THOR 1/4" 38-PIECE HOME DRILL KIT

You'll find hundreds of uses around the home or workshop for this popular power drill kit. Consists of a powerful 1/4" drill, a versatile jig-saw attachment, accessories and a sturdy steel carrying and storage case.

Thor No. 20 drill has 21/2-amp burn-out proof motor-plenty of power for driving attachments. Jig-saw attachment can be used



LOW-COST THOR 1/4" 31-PIECE HOME DRILL KIT

Economy 31-piece drill kit. Ideally suited to the requirement of the home handyman, hobbyist and others who desir dependable electric drill. Kit consists of a powerful 1/4" (accessories and a sturdy steel case.

Thor No. 20 drill has 21/2-amp burn-out proof motor. Offers 1 rpm speed under load, long-life ball thrust bearings, get For 110-120 v., 60 cycle AC. 9 lbs. **50 NX 536.** List, \$19.95.

THOR-SPEEDWAY 62-PIECE POWER TOOL KIT

Practically \$ a Complete Workshop!

49⁹⁵

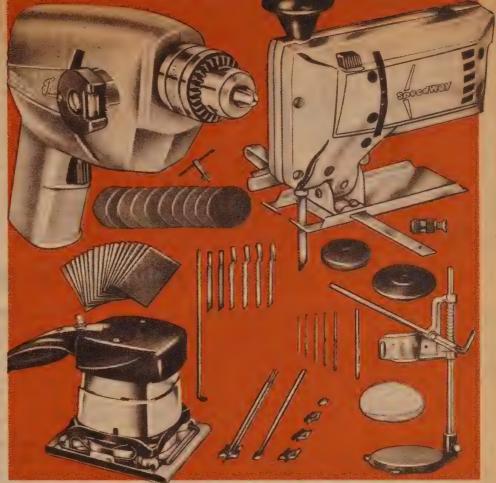
Drill, Jig Saw, Orbital Sander Feature Burnout-Proof Motors

eze through the toughest drilling, ding, sawing, sanding, polishing and ing jobs. Excellent for the home, shop, ige, etc., these three power tools ure burn-out proof motors.

ky Thor 813SS drill has 2½-amp motor, 1-rpm no-load speed, bronze alloy rings, "Speed-Sight" for all-angle ing; ball-thrust bearing. Thor 821 tal sander is lightweight, easy to dle; has self-oiling bearings, 4½x5½" ding area.

r No. 805 jig saw cuts curves, scrolls, ight and rip cuts in wood up to 2" k, 1/2" in. steel. Adjustable plate nits accurate angle cuts up to 45°. oad speed 3000 strokes per minute. includes: drill; sander; jig saw; 6 pme steel drill bits, 1/6 to 3/4"; 6 wood, 3/4 to 1"; 7-pc. arbor set; drill press; 7 saw blades—5 wood blades, 2 metaling blades; 18 sandpaper sheets; 4" sanding discs; 4/2" lambswool net; 4" rubber backer; 1 paint mixer; grinding wheel. U.L. Approved. For 120 v., AC. 32 lbs.

IU 865. List, \$88.50.....NET 49.95



nd 3" Complete Home-Workshop Power Drill Kits





THOR-SPEEDWAY 28-PIECE HOME DRILL KIT

mplete 28-piece "Work-Saver" %" power drill kit. Perfect the handyman and the "do-it-yourselfer". Contains drill, cessories, and handy steel carrying /storage case.

or No. 813 drill has heavy-duty 2½-amp burn-out proof motor, if thrust bearings—provides 1150 rpm under load. Gear-type uck—no slippage. Kit includes drill, 5—5" sanding discs; 5½" nbswool bonnet; 5" rubber backer; paint stirring tool; 7 drill, 16 to ½"; 6 wood bits, 3 to 1"; 5-piece arbor set; and steel se. U.L. Approved. For operation from 110-120 v., 60 cycle AC.

NX 866. List, \$30.95......NET 19.95

THOR-SPEEDWAY 43-PIECE HOME DRILL KIT

All-purpose %" drill kit. Features Thor 813SS drill with handy "Speed-Sight" that lets you drill angles accurately—just set the angle and level the bubble. Industrially rated, has geared chuck with key, ball thrust bearing.

Includes: drill; 7 drill bits, 1/16 to 3/8"; drill stand; circular-saw attachment with blade and work-table; jig-saw attachment with 3 blades; horizontal speed stand; 6 wood-boring bits, 3/8 to 1"; 3" grinding wheel; 10 sanding discs; wool polishing bonnet; rubber backer; 7-pc. arbor assembly. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 20 lbs.

50 NU 872. List, \$71.35......NET 34.95

ALLIED 255



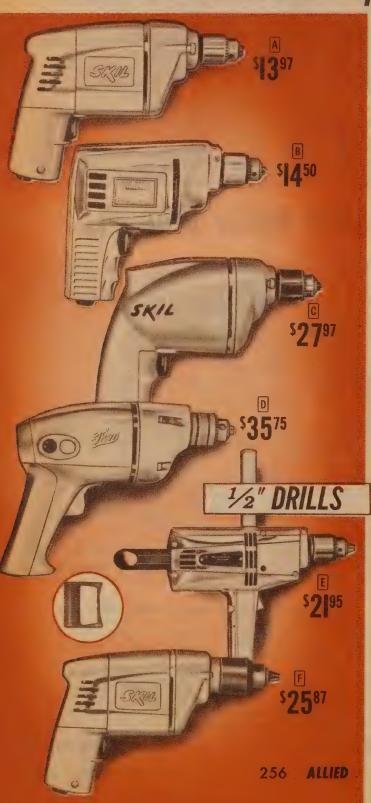
MOST POPULAR 1/4" POWER DRILL THOR MODEL 20 SUPER-VALUE DRILL

Burn-Out Proof Motor; 11-Bar Commutator Smooth, Self-Aligning Ball-Thrust Bearing

Die-Cast Aluminum Housing; Geared Chuck
 Precision-Made, Hobbed Steel Gears

An outstanding value in a highly-efficient 1/2" power drill Ideal for a wide variety of jobs around shop, home, garagand farm. Husky 2½-amp motor has plenty of power for driv ing drill attachments. Rugged gear-type chuck takes dril shanks to 1/2". Drills holes in steel to 1/4" dia., 1/2" in hardwood Self-aligning ball-thrust bearing assures smooth operation Momentary-contact switch has locking pin. No-load speed 2400 rpm; full-load, 1500 rpm. Die-cast aluminum housing Overall length, 9°. U.L. Approved, industrially rated. Include chuck key; 6-ft., 3-wire cord and 3-prong plug. For 110-120 v 60-cycle AC. Shpg. wt., 3½ lbs. 50 N 538. List, \$15.00.....

Selected Values in Popular 114" and 112" Drills



A SKIL MODEL 503 ECONOMY 1/4" DRILL

Cool-Running, 2½-Amp Motor; Self-Adjusting Brusher
 Helical Gears Deliver Full Power, Greater Torque

A low-priced, basic power tool for any workshop, the indus trially rated 503 has self-adjusting armature brushes, helica gears, trigger switch and geared chuck. No-load speed 2500 rpm. 9" long. With key, 3-wire cord and plug, 2-prong adapter. U.L. Approved. For 110-120 v., AC only. Wt., 4½ lbs

B NEW THOR MODEL 222 LOW-COST 1/4" DRILL

Design Features Heavy-Duty Ball Bearing on Spindle
 22-Bar Commutator; Burn-Out Proof Motor; Geared Chuck

Perfectly balanced, rugged duty 1/4" drill for all around use 21/4-amp motor; ball and bronze bearings; die-cast aluminum

C NEW SKIL MODEL 550 HEAVY-DUTY 1/4" DRILL

 More Powerful 3-Amp Motor Develops Up to ¼ HP
 20-Bar Commutator; Multi-Ball Thrust Bearing on Spindle For more powerful, extra-duty continuous operation; for driving larger drill attachments. Precision helical gears, large cooling fan. Has trigger switch, lock pin. No-load speed 2500 rpm. 8¾" long. With 3-wire cord, plug; 2-prong adapter key. U.L. Approved. For 110-120 v., AC or DC. Wt., 4½ lbs.

50 N 972. List, \$39.95......NET 27.97

D NEW THOR MODEL 503 HEAVY-DUTY 1/4" DRILL

• Has 22-Bar Commutator; Burn-Out Proof, 3-Amp Motor Double Reduction Alloy Steel Gears; Aluminum Housing Has all ball and needle bearings; geared chuck; oversize switch. No-load speed, 2200 rpm; full-load, 1400 rpm. 8% long. 10-ft. 3-wire cord, plug; 2-prong adapter, key. U.L Approved. For 110-120 v., AC or DC. 5 lbs.

50 N 845. List, \$49.95......NET 35.75

E NEW THOR-SPEEDWAY MODEL 814 1/2" DRILL

Burn-Out Proof 4-Amp Motor; 14-Bar Commutator
 Special, Self-Oiling Bronze Alloy Bearings; Steel Gears

An outstanding value in an extra-power, ruggedly designed

SKIL MODEL 541 COMPACT 1/2" DRILL

• Gives Big Drill Performance, Small Drill Handling Ease • 3-Amp Motor; Double Reduc. Gears; 10-Bar Commutator

Husky, compact pistol-grip drill. Double-reduction gears de velop high torque from 3-amp motor. Geared chuck-spindle has multi-ball thrust bearing for heavy use. Removable side handle. Trigger switch, lock pin. 9½" long. No-load speed 750 rpm. With key, 3-wire cord, plug; 2-prong adapter. U.L Approved. For 110-120 v., AC only. Wt., 5 lbs.

BEST SELLING %" POWER DRILL THOR-SPEEDWAY MODEL 813 DRILL

'owerful 21/2-Amp Motor Won't Burn Out 1-Bar Commutator; Locking Trigger Switch all-Thrust Bearing; "Speed Sight"

olished Aluminum Housing; Geared Chuck

nazingly low price for this industrially-rated, 3/8" drill. Ideal all-around use; drills holes in wood up to 1" thick, up to thick steel. Carefully designed, 21/2-amp motor with 11-bar mmutator, won't burn out. Has special alloy self-oiling onze bearings, gear-type chuck that holds tight-no bit page. No-load speed, 1750 rpm; full-load speed, 1150 rpm.

gger switch has locking pin for continuous operation. lished aluminum housing. 8½" long. With 6-ft., 3-wire unding-type cord, key, etc. U.L. Approved. For operation m 110-120 v., 60 cycle AC only, Shpg. wt., 5 lbs.

N 832. List, \$18.95.....



18" and 112" Power Drills for Home and Industry

A NEW THOR-SPEEDWAY 811-BT 3/8" DRILL

lusky, Burn-Out Proof 3-Amp Motor; 11-Bar Commutator Jouble-Reduction Steel Gears; Ball-Thrust Bearing

w cost, but with extra power for tough jobs. Drills holes to in steel; 3/4" in wood. Has oilite bearings, geared chuck, minum housing. No-load speed, 925 rpm; full-load, 610 n. 81/2" long. With 6-ft., 3-wire cord, plug; chuck key. U.L. proved. For 110-120 v., 60 cycle AC. 5 lbs.

B WEN MODEL 808 2-SPEED 38" DRILL

tas Two Power Takeoffs-3000 and 1000-rpm ull 3/8" Capacity in Steel; 3/4" Capacity in Wood

rsatile 2-speed 3/2", 2-amp drill—3000 rpm for wood, metals; 0 rpm for heavy metals, concrete. Geared chuck has ballust bearings; high-torque motor. Also trigger switch; lock tton; removable handle. 12 1/2" long. With 6-ft., 3-wire cord, 12; 2-prong adapter; key. U.L. Approved. For 110-120 v.,

O NEW THOR MODEL 322 BIG-VALUE %" DRILL

1.1-Amp Motor is Burn-Out Proof; Has 22-Bar Commutator

leavy-Duty Thrust and Spindle Ball Bearings real buy that offers balanced armature; precision steel ars; 3-jaw geared chuck with key; etc. No-load speed, 925 m; full-load, 610 rpm. With 6-ft., 3-wire cord, plug. 8½" long. L. Approved. For 110-120 v., AC or DC. Wt., 5 lbs.

D SKIL MODEL 560 DELUXE 3/8" DRILL

3-Amp Motor; Double-Reduction, High-Torque Gears Removable Side Handle for Drilling in Tight Spots

igged and reliable, with oversize fan for effectively cooling otor. Drills holes to ¾" dia. in steel, ¾" in wood. No-load eed, 1000 rpm; geared chuck. Trigger switch, lock pin. 9%" ng. With key, 3-wire cord, plug; 2-prong adapter. U.L. Apoved. For 110-120 v., 60 cycle AC. Shpg. wt., 4% lbs.

NEW THOR 1419R REVERSIBLE 1/2" DRILL

Burn-Out Proof 51/2-Amp Motor; 28-Bar Commutator Reversing Switch in Handle; Removable Top/End Handles

solid value! Capacity: 1/2" in steel; 1 1/4" in hard wood. Heavyty, special bronze spindle bearing; rotatable end-grip indle, removable end and top handles. Has reversing vitch, safety lock, quick release. No-load speed, 550 rpm; Il-load, 400 rpm. Length (with end handle), 14½"; without indle, 11½". With 3-wire cord, geared chuck and key, etc. L. Approved. For 110-120 v., AC or DC. Wt., 12 lbs.

NX 869. List, \$49.95..... NET 36.50

F NEW THOR 1435R REVERSIBLE 1/2" DRILL

Similar in Design and Features to Above, But With 61/2-Amp Burn-Out Proof Motor, 28-Bar Commutator

as all the desirable features of Thor's Model 1419R, but for eaviest duty jobs. All ball and needle bearings, oversize vitch with locking pin, etc. Size, etc., as above. NET 54.95

EW THOR MODEL 1435 1/2" DRILL. Same as 1435R above, ut without reversing feature.



Selected Power Saws — Circular, Rip, Jig, Sabre



SKIL MODEL 524 JIG SAW

Lightweight, economy, orbital-action ing saw. Crosscuts, rips, scrolls, notches and bevels up to 45°. Cuts intricate patterns; makes its own starting hole for pocket cuts. Cuts soft woods up to 2° at 90°; 1¼" at 45°; soft metals to ½" mild steel to ½". 2-3 amp motor provides 3700 ½" strokes-per-minute, no-load Anti-friction self-lubricating bearings 7½" long. With 3 wood-cutting blades wrench, 3-wire cord and adapter. U.L. Approved. For 110-120 v., AC-DC. 5½ lbs.

50 N 519. List, \$34.95..... NET 24.47

BALL-BEARING SAWS

A SKIL 554 HEAVY-DUTY 81/4" CIRCULAR SAW

Extra-Power Motor Has Plenty of "Bite" for Every Job
 Employs 3 Ball Bearings, Needle Bearing, Helical Gears

Has the power and cutting capacity for continuous or professional use. Huge 13-amp ball-bearing motor develops over 2 hp. 8¼" blade cuts vertically from ½6 to 2½" at 90°; maximum depth, 2½" at 45°. No-load speed, 5200 rpm. Has exclusive blade lock for fast, easy blade changes. 12" long. With hardtooth combination blade; blade wrench; 3-wire cord, plug; 2-prong adapter. U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 17 lbs. 50 NU 874. List, \$99.95.

G SKIL 553 HEAVY-DUTY 74" CIRCULAR SAW

Utilizes same features as Model 554 above, but has 12-amp, 2-hp motor; cuts from 1/6 to 23/6" at 90°. maximum depth, 1 1/6" at 45°. Has depth control, protractor for angle cuts, blade guard. Noload speed, 5200 rpm. 12" long. 3-wire cord, plug; 2-prong adapter. U.L. Approved. For 110-120 v., AC or DC. Wt., 16 lbs.

45 NX 222. List, \$89.95. NET 67.95

R SKIL 552 HEAVY-DUTY 61/2" CIRCULAR SAW

Similar to above models, but with 6½" blade and 10-amp motor that develops over 1½ HP. Cuts vertically from ½ to 23½" at 90°; maximum depth, 1¾" at 45°. No-load speed, 5800 rpm. Has blade lock, guard, combination blade, etc. 10¼" long. With 3-wire cord, plug, 2-prong adapter. U.L. Approved. For 110-120 v., AC or DC. Wt., 15 lbs.

50 NX 533, List, \$74.95

E SKIL MODEL 537 DELUXE 71/2" CIRCULAR SAW

Lower cost 71/4" saw, with 10-amp motor that develops 11/2 HP. Handles even toughest rip cuts. Has all the top Skil features: anti-kickback clutch, sawdust blower, blade lock, easy-setting depth control, etc. Cuts vertically from 1/16 to 23/4"; maximum depth of cut at 45°, 11/8". No-load speed, 5150 rpm. 12" long. With combination blade, wrench, 3-wire cord and plug, 2-prong adapter. U.L. Approved. For 110-120 v., AC or DC. Wt., 17 lbs.

50 NX 486. List, \$64.95.

F SKIL MODEL 536 61/2" CIRCULAR SAW

G SKIL 577 "RECIPRO-SAW" WITH 3 BLADES

Totally new kind of power saw. Cuts anything—6" logs to thin plastic sheeting. Makes rip, miter, bevel, straight, flush cuts. Has double reduction gears, adjustable foot, 3-position side handle. 3-amp motor gives 2000—¾" strokes—min. 11¾" long With 3 blades (1—Type 25922, 1—Type 20538, 1—Type 20541, described at right); 3-wire cord, plug; 2-prong adapter. U.L. Approved. For 110-120 v., AC or DC. Wt., 6½ lbs.

50 NX 789. List, \$49.95.



ACCESSORY BLADES FOR SKIL 577 SAW

258

ALLIED ORDER BLANK

ALLIED RADIO CORPORATION, 100 N. WESTERN AVE., CHICAGO 80, ILL., PHONE: HAymarket 1-6800

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TO OPEN AN

ALLIED CREDIT FUND ACCOUNT

No down payment is necessary! Please answer all questions shown below and sign the contract on the line marked "X". Your first order should be for at least \$20.00. You do not need to figure shipping charges; they are prepaid and will be added to your account.

NOTICE TO THE BUYER-MAIL ORDER RETAIL INSTALLMENT CONTRACT

Do not sign this contract before you read it. Under the law you have the following rights among others: a) To pay off in advance the full amount due and obtain a partial refund of the finance charge; b) Under certain conditions to redeem the property, if repossessed for a default.

FOR NEW ACCOUNTS

(ALSO FILL OUT BELOW IF ACCOUNT HAS BEEN CLOSED FOR MORE THAN A YEAR)

Account Agreement ALLIED RADIO CORPORATION, Chicago 80, Illinois. Please open a Credit Fund account for me. I agree that each purchase made under this contract will

me. I agree that each purchase made under this contract will be subject to the following terms: Until the merchandise is fully paid for, title to and right to possession of the merchandise shall remain in you; Upon default in payment of any installment of the purchase price, you may without notice declare the entire balance immediately due and payable, and, if you so elect, repossess the merchandise, taking the same in satisfaction of the balance due; I shall pay an installment each month as billed by you, which will include a service charge in accordance with the terms stated in your catalog; and if I elect to pay the full account within 30 days after the first billing date, there will be no service charge. For the purpose of obtaining credit, I make the following representations listed below.

MAIL ORDER RETAIL INSTALLMENT CONTRACT

TO "ADD ON" AN ORDER

Just sign below—No questions to answer
—No down payment on ''add on'' orders.

ALLIED RADIO CORPORATION, Chicago 80, Illinois. Please add the merchandise on the reverse side as a purchase under my present Allied account. This purchase will be combined with my present account and I will pay on the one combined account according to the contract terms set forth in your current catalog and upon the conditions stated in my original contract.

No	DATE	
PLEASE		
SIGN		
HERE		

on the line marked "X".

SIGN X HERE			DATÉ				
Name			Phone No		A	je	
Home Address			How Lon	g At Iress			
City & State			☐ Rent ☐ Own	☐ Single ☐ Married	No. of Dependents		
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If on Active Duty Give Military Address		· · · · · · · · · · · · · · · · · · ·		Serial			
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Previous Employment	(Name)	(Address)			_How Long		
Spouse's Employer	(Name)	(Address)					
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Please write or print plainly

NAME		
ADDRESS		
POST OFFICE	CITY ZONE	
CTATE		



ALLIED RADIO

100 N. WESTERN AVENUE CHICAGO 80, ILLINOIS

Thank you for your order BEFORE SEALING ENVELOPE

Please be sure to:

- V Enclose money order or check
- V Write or print your name and address plainly
- V Give correct stock numbers and descriptions

and Router — by Skil, Thor-Speedway, Weller, Wen

WEN

C WEN 505K SABRE SAW KIT

br home or shop. Cuts any material; takes starting holes, inside cuts. 1.8-np motor gives 2650—%" strokes/inute under load. Includes: saw; fine, redium, coarse blades; metal-cutting lades; case. 7\%" long. With 3-wire ord, 2-prong adapter. U.L. Approved. or 110-120 v., AC-DC. 6\% lbs. List, 29.95.

Model 88



F NEW WELLER MODEL 88 ELECTRIC SABRE SAW

Features ultra-high speed and 3/6" stroke. Blade retracts on down stroke. Makes its own starting hole. Has powerful 4.8-amp, air-cooled reciprocating motor that needs no lubrication. Easy to handle—doesn't buck. Excellent for cabinet and finish work. 11 3/" long. With 4 wood-cutting blades, blade wrench and 8-ft. cord. For 110-120 v., 60 cycle AC. U.L. Approved. Wt., 6 lbs. 50 NX 880. List, \$22.95. 3-Up, EACH 15.38.....1-2, EACH 16.87

A NEW WEN 920 ALL-PURPOSE ZIPP SAW

• Powerful 1/3-HP Motor; Heavy-Duty Roller, Oilite Bearings
• Accurately Cuts Curves, Straight Cuts, Fine Pattern Work
Fast-cutting unit that saws up to 6" timbers, 2" pipe. Delivers
3200, 1" strokes per min. Cuts scrolls, curves, straight cuts in
wood, metal, plastic, etc. Starts its own hole. Has full 1/3-hp, 41/4amp motor with heavy-duty bearings; hardened gears. Air
stream clears dust from work—you get full cutting-blade visibility. Conventional saw grip; auxiliary grip handle; safety release switch. Includes 7 blades—one for every cutting job. Polished aluminum housing. With 3-wire, 8-ft. cord, plug. U.L. Approved. For 110-120 v., 50-60 cycle AC. 81/2 lbs.
50 N 873. List, \$44.95. 3-Up, EACH 29.37.....1-2, EACH 33.05

B WEN MODEL 909 "ALL-SAW"

For straight cuts, arcs, circles, fine-pattern work in bakelite, wood, metal, tile, etc. Cuts ½" metals, 6" wood; 90° cuts in 6x6's 45° cuts in 4x4's. Makes inside cuts. ½-hp, 6-amp motor has oilite bearings, hardened gears. 3400—1" strokes per min. Sawdust blower; adjustable rip guide. 3-wire cord, 2-prong adapter. 7½x 7x8". U.L. Approved. For 110-120 v., AC-DC. Wt., 8½ lbs.

THOR-SPEEDWAY MODEL 800 7" CIRCULAR SAW

Industrially rated—has powerful 8-amp motor with burnout proof motor. Develops full 1.2 HP; has self-lubricating bearings. Cuts ¼" to 2½"; at 45°, 1¾". Has safety-slip clutch that eliminates blade "kick-back." Blade guard retracts as blade enters work. No-load speed, 5000 rpm. With rip fence; guiding handle; protractor for angle cuts; 3-wire cord. U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 15 lbs.

50 NX 809. List, \$30.95.

E THOR-SPEEDWAY MODEL 805 JIG SAW

Burnout-proof 3-amp motor with no-load speed of 3000—% strokes per minute. Uses helical-cut steel gears. Cuts up to 2" in soft wood; ½" in steel. Adjustable plate for cutting 45° angles on either side; also curves, scrolls, circles, straight cuts and rips. Self-oiling, bronze alloy bearings. With 2 wood-cutting blades; 1 metal-cutting blade; wrench; rip fence; circle cutter; guiding handle. U.L. Approved. For 110-120 v., AC or DC. Wt., 5 lbs.

50 N 830. List, \$19.95.

G SKIL MODEL 297 HEAVY-DUTY ROUTER

Powerful 6½-amp, ¾-hp router for routing, trimming, cove-cutting, rabbeting and decorative cutting. Also mortises, trims, dadoes, grooves and beads. No-load speed, 23,000 rpm. With ¼, collet and wrench; 3-wire cord and plug. Overall ht., 6½″. U.L. Approved. For 110-120 v., AC or DC. Wt., 8 lbs.



DREMEL MOTO-TOOL KITS

MODEL 2 MOTO-TOOL KIT. Pocket-sized precision "machine shop". Engraves, routs, sands, polishes, saws grinds, drills, etc. Includes: Model 221, 27,000-rpm Moto-Tool chuck; 3 collets; finger-grip; 4 emery wheel points; dressing stone 8 steel cutters and steel saw; 5 bristle brushes; 1 steel brush shoulder mandrel with sanding disc; screw mandrel with fel wheel; drum sander; case. U.L. Approved. For 110-120 v., AC o

with power takeoff and disc sander attachment. Handles al jobs around the home and hobby shop. Rocker-action saw has tilting table, 3450-rpm ball-bearing rotary motor, blade guard Flexible shaft drives accessories. Includes: jig saw with 4 saw blades; rubber backer; adapter; 3 sanding discs; grinding wheel cloth buffing wheel; wire brush wheel; wheel guard; polishing compound stick; and 12-piece set of abrasive wheels, colle adapters, router, brush and drill. U.L. Approved. For 110-120 v. 60 cycle AC. Shpg. wt., 17 lbs.

Precision Power Tool Kits and Spraying Equipment



Improved compressor-type sprayer at an extremely low price Gives you a much faster, more professional spraying job with various types of paint, enamel, varnish, insecticides—ever multicolor liquids. Compressor has precision-machined piston honed cast-iron cylinder. Internal-mix, pressure-type gun gives wide, uniform fan spray. Complete with 1-quart aluminum container; 3 spray nozzles for all types of work; 10-ft. hose; and fan-

E BURGESS MODEL VS-850 ELECTRIC SPRAYER

Deluxe unit with 3 sapphire nozzles on rotating turret. Sprays paint, varnish, enamel, light oils, etc. Handy "dial-a-spray" produces fan-shaped spray for walls, floors; round spray for furniture, etc.; fogger for garden sprays, insecticides. Foolproof, trouble-free and easy to clean. Reciprocating motor is housed in shockproof head. With 24-oz. container and 8-ft. cord. For 110-120 v., 50-60 cycle AC. 4 lbs.

Engraves steel, glass, aluminum, plastics, ceramics, brass, stone wood, etc. Handles like a pencil—vibrator motor delivers 7200 strokes per minute for fast, clean, permanent engraving. Excel-

lent for factories, labs, homecraft and hobby shops. Compact and easy to operate—anyone can use it skillfully with just a few minutes experience. Includes tantalum carbide point. For 110-120 v., 50-60 cycle AC. Shpg. wt., 1 lb.

50 N 556. List, \$12.95.

G THOR IMPACT WRENCH DRILL KIT

Powerful 4-amp impact tool for shop, garage and farm. Reversible wrench drives nut-driver sockets, provides powerful torque. Easily converts to ½" drill; with attachments, use as power screwdriver, sander, etc. Includes 6 most-used hexagon sockets (½", ¾6", ½", ¼6", ½", 1¾6"); 3-jaw, geared ½" chuck; and steel carrying case. With 3-wire, 10-ft. cord and 2-prong adapter. Case 10 ½x11 ½x16½". U.L. Approved. For 110-120 v., AC or DC. Wt., 21 lbs.

50 NU 878. List, \$89.50 NET 66.82 NET 879. Impact Wrench Only. 9 lbs. NET 55.59

NEW WEN MODEL 910 DELUXE 3" BELT SANDER

I Gear Driven; Permanently Lubricated Gears, Bearings lished Aluminum Housing, Ventilated for Cool Running

essional-quality, industrial-duty unit at home workshop sl Handles toughest sanding jobs; has powerful 1/3-hp, 41/4-motor. Free belt speed 850 ft./min. Sawdust blower; quick, belt changing; contour grip. With coarse, medium and fine ing belts; and 6-ft., 3-wire U.L. approved cord and plug. 5½x10½". For 110-120 v., 50-60 cycle AC. Wt., 9 lbs.

806. Extra Coarse Sanding Belt. 60 grit. 3 oz. 52c

807. Extra Medium Sanding Belt. 80 grit. 3 oz. 52c

IKIL MODEL 405 PROFESSIONAL 4" BELT SANDER ures powerful 7-amp motor, ball and sleeve bearings. Motor hs 4x21 ½" belt at 1350 ft./min. Sands up to vertical edges. 6¾x12 ½". With belt, 3-wire cord, 2-prong adapter. U.L. roved. For 110-120 v., AC or DC. 15 lbs.

X 328. List, \$89.95.....NET 66.99

SKIL MODEL 592 DELUXE ORBITAL SANDER is, buffs, polishes-full 25 sq. in. pad. Sands to vertical edges

1096. Lambs' Wool Polishing Pad. 1/4 lb......................NET 1.12



uality Power Sanding and Grinding Equipment

VELLER MODEL 77 RECIPROCAL POWER SANDER *to-use sander designed for long, trouble-free life under usage. Reciprocating 4.8-amp motor is fan-cooled, drives at 14,400 strokes/min. Stroke length, */32"; sanding area 26 re inches. Removable side handle. Uses 35%x9" sanding ets (not included). 9" long. With 8-ft. cord. U.L. Approved. 110-120 v., 60 cycle AC. Shpg. wt., 61/2 lbs.

NEW THOR-SPEEDWAY 821 ORBITAL SANDER roved, low-cost version of Thor's famous No. 1 sander. tures $4\frac{1}{2}$ x5 $\frac{1}{6}$ " sanding area and a $\frac{1}{6}$ " orbit that duplicates essional hand-sanding. Uses $4\frac{1}{2}$ x6 $\frac{1}{2}$ " sandpaper sheets heet included). Mirror-finished housing. With 3-wire cord. 2ng adapter. U.L. Approved. For 110-120 v., 50-60 cycle AC.

1 829. List, \$16.95...... NET 11.99

'HOR HIGH QUALITY "SPEEDGRINDERS"

THOR MODEL 118B LOW-COST BENCH GRINDER nt to medium duty, bench-type grinder. Burn-out proof motor; oad speed, 3450 rpm. Has lightweight aluminum body, waterling tray, tool rests, dust shelds, eye shields. With 2 grinding sels (40 and 70-grit), $4\frac{1}{2}x\frac{1}{2}$, $\frac{1}{2}$ holes; 6-ft., 3-wire cord. gth, $9\frac{1}{2}$. U.L. Approved. For 110-120 v., 60 cycle AC. Wt.,

NX 850. List, \$21.95 (1.20)

THOR MODEL 1288 MEDIUM-PRICED GRINDER proved "Speed Grinder" for heavier jobs. Burnout-proof 1/4-hp, ded-pole motor gives 3450-rpm no-load speed, has self-ning bearings. Tool rests, angle guides, reinforced eye elds. 2 grinding wheels (46 and 75-grit), 6x ¾", ½" holes. Length, 3-wire cord. U.L. Approved. For 110-120 v., 60 cycle AC. Wt.,

NU 851. List, \$35.50 1. 20 1. 1. 1. 1. 1. 1. NET 24.95

THOR MODEL 130B DELUXE BENCH GRINDER heaviest jobs. Full 1/3-hp, ball-bearing motor won't burn out, es 3450-rpm no-load speed. Offers removable plastic quench y, die-cast tool rests with angle guides, parts tray, reinforced shields, adjustable spark arresters. High-strength, die-cast minum alloy housing. With 2 grinding wheels (46 and 75-grit), 4", 4" holes. Length, 16". Heavy duty 3-conductor lead cord... Approved. For 110-120v., 60 cycle AC. Wt., 27 lbs. NU 868. List, \$47.50......NET 33.95



Selected, Highly Useful Power Drill Accessories



ARCO 460 CIRCULAR SAW. Slide-lock fits any ½" drill. Detachable Dado-Arbor swivels blade to cut grooves to ½" wide, 1" deep. Cuts 2x4's. Depth and bevel gauges—cuts to 1¾", bevels to 45°. Right angle steel gear drive. Self-lubricating bearings. With rip adjustable gauge, yoke, 5" blade. Shpg. wt., 4 lbs.
50 N 840. List, \$12.95..........NET 8.63

B ARCO 560 JIG SAW. Attaches to any 1/4" drill. Has adjustable circle cutter and rip gauge. Cuts circles to 20" dia., rips to 10" wide. Cuts 2x4's, plastic, metal, etc. Air blower clears sawdust. Right angle drive; self-lubricating bearings. With blade. Shpg. wt., 2½ lbs.

50 N 231. List, \$9.95.....NET 6.63

6 EXTRA BLADES. 2 each—coarse, medium and fine-tooth blades. ½ lb. 50 N 232. List, \$1.95.....NET 1.39

C HUOT DRILL CASES. Sturdy-made of durable heavy-gauge steel. Handy index shows drill sizes at a glance.

60 DRILL CAPACITY. Holds standard drill sizes 1 to 60. Decimal equivalents and machine-screw tap data are on inside of case. Size, 31/4x41/2x1". Wt., 1 lb.

46 N 790 NET 1.84

D AERO "ROTO-PLANE." Fits 1/4" and 3/8" drills. 0-1/16" cut; 1 3/4" cutting width. Guide edge for planing at true 90°. With clamp ring. Wt., 3 lbs.
50 N 954. List, \$11.95...................NET 6.75

ERWOOD 355 DIAL SAW. For use with electric drills, lathes, etc. Dial adjusts for hole sizes from 1½" to 3½". Cuts, metal, wood, plastic, etc. ¾" shank. Metal-cutting blades; 3/16" pilot drill. Shpg. wt., 1 1/2 lbs. 50 N 373. List, \$10.50......NET 7.39

F BEAVER SAW DRILL BITS. High speed bits for 1/4-1/2" drills. Abrasive resistant steel; non-clog flutes. Wt., 3 oz. 46 N 795. All-Purpose. 46 N 796. Wood. 46 N 797. Heavy-Metal Bit. . . EACH 1.65

G BABCO 30 SANDER KIT. Vibration-free sanding with 5" foam rubber back-ing pad; "Rubber-Flex" swivel drive. Fits all 1/2" drills. 6 sanding discs for wood or metal. Shpg. wt., 8 oz.

50 N 238. List, \$2.25.....NET 1.65

BABCO 509 REPLACEMENT DISCS. Package of 6. Shpg. wt., ½ lb. 50 N 239.....NET PER PACKAGE .37

NEW ARCO 750 SCREW-NUT DRIV-ER SET. 15-piece outfit fits any drill. Non-slip industrial-type clutch idles until pressure is applied, disengages automatically when work is driven home. Special holders prevent bits from slipping off screwheads. Includes: 2 flat bits with bit holders for #4-8 and #8-14 slotted screws; #2 Phillips head bit; 6 hex socket wrenches $(\frac{1}{4}, \frac{5}{16}, \frac{11}{32}, \frac{3}{26}, \frac{7}{16}, \frac{1}{2}")$; 2 square socket wrenches $(\frac{1}{4}, \frac{5}{16}")$; and holder with ball lock. Complete instructions are included.

BABCO KNIFE-SCISSORS SHARP-ENER. Fits any ½" drill. Beveled groove between grinders sharpens knives. Cup guide on end of shaft holds scissors at proper sharpening angle. 5 oz.

50 N 377. List, \$1.00......NET .75

BABCO 912 HORIZONTAL DRILL STAND. One-piece metal stand clamps or screws on bench. Converts 1/4 drill into a bench tool for sanding, buffing,

M G-H 825 DRILL GRINDING A

N AERO SA-2000 ORBITAL SAND Fits 1/4" and 3/4" drills. Orbits at tw the drill speed. Holds 35/x9" sand pa (1/3 std. size). 3 sheets included. 71/4x3 31/4". Shpg. wt., 2 lbs. 50 N 607. List, \$10.95.....NET 6. AERO ASA-200 SANDER. As above,

P BABCO 825 5-1 SPEED REDUC! Fits 1/4" drills. Drives up to #14 screen Reverses—taps up to 5 holes a minu 1/4", 1/2" adapters; 1/4" adapter slee screwdriver bit, sleeve. 3 lbs.

orbits at the same speed as drill.

50 N 005. List, \$13.95...... NET 10. BABCO 742 RIGHT-ANGLE DRIV For 1/4" drills. Fits 3/6"-24 threaded sp dle (male or female). 2 speeds—halv

NEW ARCO 1252 ROTO-FORM. shank fits any drill. Shapes, cuts, for and mills-never clogs or needs sharpe ing. Hardened, tempered steel. Has 1 diameter drum, ½ lb. 50 N 957. List, \$1.98......NET 1.4 1251 ROTO-FORM. Above, 1 1/4" dia. dru 50 N 959. List, \$1.49......NET 1250 ROTO-FORM. Above, 3/4" dia. dru

50 N 958. List, \$1.00.....NET . MILLER FALLS 710 COUNTERSINK High-speed steel. Five ground-ed flutes cut at 82° angle. ¼" shank; 2 long. ½" diameter. Wt., 4 oz.

46 N 156.....NET 1. 50 N 960. Above, with 1/8" dia ... NET 1. 50 N 961. Above, with 3/4" dia ... NET 1.

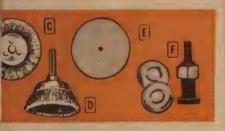


CHICAGO SAW UNIV. CIRCU-LAR BLADES. Fit diamond, 1/2".

% mu. arbors. Temser toom. Tib.									
Stock No.	Туре	Dia.	Style	EA.					
50 N 564 50 N 964 50 N 565	C-714-UN C-814-UN	7-7½" 8-8¼" 6½"	Combination* Combination* Combination* Cut-off Cut-off	1.51					
50 N 567 50 N 568	L-814-UN A-612-UN A-714-UN A-814-UN	7-71/4"	Rip Rip	1.80 1.51 1.51 1.80					

B SKIL UNIV. JIG SAW BLADES. Replace 1/4" shank blades.

Stock No.	Use for	Blade	Lbs.	Per 5
	Heavy metal Light metal		3/4	4.24
50 N 445	Heavy wood Wood & plastic	Coarse	3/4 8/4 1/2 1/2	3.72
50 N 447	Thin wood	Fine		3.72
	Roughing cuts Roughing cuts		1/2 1/2	2.16 2.16



COASTAL WHEELS, BRUSHES

For electric drills and grinders hat will accept a χ'' shaft. Type numbers ending with "C" are coarse. Those ending in "F" are fine, *Similar to Figure C, but has χ'' shank.

Stock No.	Fig.	Type	Dia.	Mtg.	Oz.	EACH
50 N 711	*	P81F	2"	1/2" Shank	4	.65
50 N 710		P81C	2"	1/4" Shank	4	.59
50 N 708	**	P83F	3"	1/4" Shank	6	.81
50 N 709	*	P83C	3″	1/4" Shank	6	.74
50 N 028	D	92C	2"	1/4" Shank	4	.89
50 N 029	D	92F	2"	1/4" Shank	4	.99
50 N 200	C	P94F	4"	1/2" Bore	8	.89
50 N 201	C	P94C	4"	1/2" Bore	8	.69
50 N 202	C	P96F	6"	1/2" Bore	12	1.25
50 N 203	C	P96C	6"	1/2" Bore	12	1.03

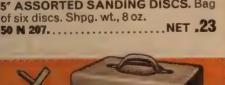
MUSLIN BUFF. Quality 6" muslin buffing wheel and bar of jewelers' rouge. Has ½" bore. Use with arbor listed below. Shpg. wt., 4 oz.

50 N 204......NET .81

725 ARBOR. For wire and buff wheels above. Has 1/2" shank; 1/2" machined, nickel-plated body. Wt., 8 oz.

50 N 206.....NET .32

5" ASSORTED SANDING DISCS. Bag of six discs. Shpg. wt., 8 oz.







CENTURY DRILL BITS FOR WOOD, PLASTIC, METAL OR MASONRY

SPECIAL-PURPOSE DRILL BITS

G 4-PIECE MASONRY DRILL SET. $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " drills. All have $\frac{1}{4}$ " shanks. Carbide tips for drilling concrete, bricks and plaster. Comes in plastic roll. Shpg. wt., 5 oz.

46 N 718. List, \$5.12......NET 2.95

CHROME STEEL DRILL BIT SET. 5 chrome alloy bits for electric drills. For use on aluminum and other soft metals. Sizes, ¼", 5/16", 3%", 7/16" and ½". All have ¼" shanks. Shpg. wt., 1 lb.

46 N 787.....NET 3.69

H 6-PC. HIGH-SPEED POWER BIT SET. %", ½", ½", ¾", ¾", and 1". All have ½" shanks. In plastic pouch. Wt., 12 oz. **50 N 350.** List, \$8.90. **NET 5.35**

HI-SPEED POWER DRILLS

For wood, plastic, thin aluminum sheets, etc. Have $\frac{1}{4}$ " shanks. Wt., 3 oz.

Stock No.	Size	EACH	Stock No.	Size	EACH
50 N 351	3/0"	.74	50 N 356	3/4"	.93
50 N 352	1/2"	.79		12/10"	,96
50 N 353	/10"	.89	50 N 358 50 N 359	1/3"	.96 1.00
50 N 354	11/10"	.93	30 14 339		

12" BIT EXTENSION. For 1/4" shanks. Includes hex key. Shpg. wt., 7 oz. 50 N 360. List, \$2.00.........NET 1.20

BLACK MAGIC HI-SPEED DRILLS

13-DRILL SET, Includes 13 drills from 1/16" to "/" in 1/64" graduations. Packed in Huot Index Drill Case. Every drill is instantly accessible. Case, 43/4x2x3/". Shpg. wt., 9 oz.

46 N 782. List, \$9.77.....NET 5.85

J 15-DRILL SET. 1/16" to ½" in 1/32nds. Sizes over ½" have ½" shanks. Case, 7x4x1 ½". Wt., 3 lbs.

46 N 786. List, \$31.67.....NET 18.95

17-DRILL SET. 1/16" to 1/4" in 1/64ths; to 3/6" in 32nds. Sizes over 1/4" have 1/4" shanks. Huot Index Case, 6x1 1/4x4". 2 lbs. 50 N 967. List, \$19.70..........NET 11.95

60-DRILL SET. Sizes 1 to 60 in handy steel Huot Index Drill Case. Opens like a book for quick selection. Case, 43/x35/x 21/8". Shpg. wt., 11/4 lbs. 46 N 717. List, \$39.33......NET 23.60

10-DRILL SET. Ten drills from 1/16" to 10-DRILL SET. Ien drills from 7.8 to 1/2" with 1/4" diameter shanks on sizes over 1/4". Transparent plastic container is indexed. Shpg. wt., 9 oz. 50 N 968. List, \$12.83......NET 7.95

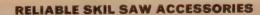
MECHANICS' LENGTH. High-speed drills 1/16" to 1/2". 1/2" and larger drills have 1/4" shanks. Av. wt., 3 oz.

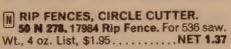
Stock No.	Size	EACH	Stock No.	Size	EACH
49 N 656	1/10"	.22	49 N 667	15/64"	.61
49 N 657	3/44"	.22	49 N 668	1/4"	.65
49 N 658	3/32"	.23	47 N 026		.89
49 N 659	7/84"	.26	47 N 027	3/10"	1.10
49 N 660	1/3"	.30	47 N 028	11/32"	1.33
49 N 661	P/04"	.30	47 N 029	3/8" "	1.56
49 N 662	8/32"	.35	47 N 031	19/32"	1.83
49 N 663	11/84"	.38	47 N 032	7/16"	2.20
49 N 664	3/16"	.44	47 N 033	15/32"	2.70
49 N 665	13/84"	.50	47 N 034	1/2"	2.74
49 N 666	7/32"	.56			2000

LONG-SHANK MASONRY DRILLS

TYPE L-56. 18" carbide-tipped—for 1/4" hole. Wide flute. 11/4 lbs. 47 N 007. List, \$5.33.....NET 3.20

TYPE L-56. As above, for 3/8" hole. 47 N 008. List, \$6.48.....NET 3.89





50 N 970. 25174 Rip Fence/Circle Cutter. For 524 saw. 4 oz. List, \$1.85.... NET 1.30

P 26099 SAW CARRYING CASE. Durable heavy gauge steel case withstands rough handling. Special brackets hold saw snugly in place-protect it from damage and unnecessary wear while not in use. Brackets also protect extra blades from



Kraeuter Top-Quality Pliers, Cutters and Snips



JEWELERS' PLIER SETS

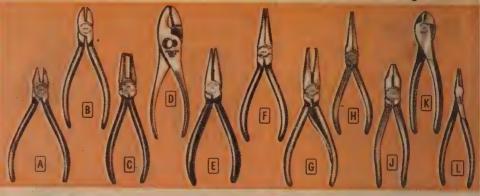
- Cushion-Grip Handles
- Machined From Tool Steel

TYPE CG90. CG81 diagonal cutters; CG82 end cutters; CG83 chain-nose pliers; CG84 flat-nose pliers; CG85 round-nose, roundjaw pliers. Case. 1 1/4 lbs.

46 N 423. 1-5, EA. 14.34 6-Up, EA.13.00

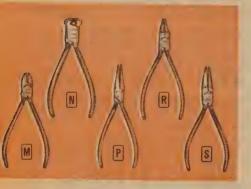
TYPE CG89. One each: CG84 flat-nose pliers; CG81 diagonal cutting pliers; CG83 chain-nose pliers. Zip case, 1.lb.

46 N 435. 1-5, EA. 9.19 6-Up, EA. 8.34



Forged steel; polished heads: "CG" prefix-vinyl cushion-grip handles. Av. wt., 1 li

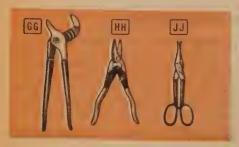
Stock No.	Fig.	Туре	Description	1-5, EA.	6-Up, EA
50 N 110 50 N 433 46 N 402 46 N 403 46 N 414 50 N 113	ABBBBC	CCG4625 CG4501 CG4501 CG4501 CG2612 CG5627	5" Needle-Point Diagonal Cutters with Spring 4 1/2" Narrow Head Diagonal "Oblique" Cutters 5" Narrow Head Diagonal "Oblique" Cutters 6" Narrow Head Diagonal "Oblique" Cutters 6" Wire-Stripping Diag. Cutters (with spring) 5 1/4" Resistor Terminal End Cutting Pliers	3.45 2.17 2.35 2.72 3.39 3.63	3.13 1.96 2.14 2.47 3.08 3.30
49 N 023 49 N 024 49 N 025 50 N 330 46 N 401 46 N 404	DDDmmm	056 056 156 CG1641 CG1661 CG1671	6" "Hi-Brite" Combination Pliers 8" "Hi-Brite" Combination Pliers 10" Pliers as Above, but Heavy Chrome Plated 5" Short-Chain Needle-Nose Pliers (with cutter) 6" Long-Chain Needle-Nose Pliers (no cutter) 6" Long-Chain Needle-Nose Pliers (no cutter)	.62 .82 1.44 2.46 2.68 2.09	.57 .75 1.31 2.24 2.44 1.90
50 N 331 49 N 011 46 N 052 50 N 112 46 N 413 50 N 332	MIN GIT	CG1781 CG1771 CCG141 CG1650 CG1741 CG1801	7' Long-Chain Needle-Nose Pliers (with cutter) 7" Long-Chain Needle-Nose Pliers (no cutter). 6" Radio and Ignition Nose Cutting Pliers 6" Long-Jaw End-Cutting Pliers (with spring) 6" Long Flat-Nose Pliers (no cutter) 6" Long Flat-Nose Pliers (no cutter) 6" Linemen's Side Cutting Pliers	3.23 2.39 4.42 3.56 2.26 3.12	2.93 2.17 4.00 3.23 2.05 2.84
46 N 408 46 N 400 49 N 017 46 N 410 50 N 111 49 N 012	JUJKUL	CG1801 CG1830 CG1830 CG4610 CG71 CG61	8 1/2 Linemen's Side Cutting Pliers 6 1/2 Electrician's Side Cutting Pliers 8" Electrician's Side Cutting Pliers 7" Heavy-Duty Diagonal Cutters 8" Long-Reach Short-Jaw Nose Cutting Pliers 8" Long-Reach Short-Jaw Nose Pliers (no cutter)	3.79 2.43 3.06 2.62 3.66 2.87	3.43 2.20 2.77 2.38 3.32 2.60



41/2" JEWELERS' PLIERS

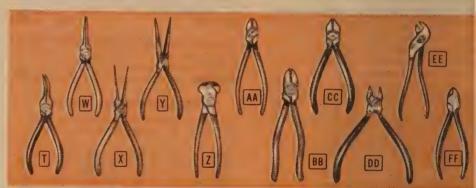
Fine precision pliers with resilient vinyl cushion grips-will not crack or peel. Smooth polished, high-quality tool steel. Type CG81 is for close cutting of small, soft wires. CG82 is for end cutting as in printed circuit assemblies. CG83, 84 and 85 have smooth jaws. Av. wt., 5 oz.

Stock No.	Fig.	Type	Description	1-5, EA.	6-Up, EA.
46 N 418 50 N 333		CG81	Diag. Cutting End Cutting	2.50	2.27
46 N 415 46 N 416	P	CG83	Chain-Nose	2.35	2.13
46N 417	R		Flat-Nose Round-Nose	2.35	2.13



ALLIED

264



Forged steel; vinyl cushion-grip handles and full polished heads. Av. shpg. wt., 1 lb

Stock No.	Fig.	Туре	Description	11-5. EA.	6-Up, EA
49 N 009 49 N 010 49 N 013 49 N 014 49 N 015 49 N 016	T W X Y Z Z	CG1631 CG1621 CCG140 CCG160 CG3850 CG3850	5½" Curved-Needle or Snipe-Nose Pliers (no cutter) 6" Long-Needle or Snipe-Nose Pliers (no cutter) 6" Long-Nose Electronic Pliers—"Jaz" Tip (with spring) 7" Extra Fine Long-Nose Electronic Pliers (with spring) 6" End Cutting Nippers 8" End Cutting Nippers	2.87 2.50	2.60 2.27 2.83 2.37 2.64 3.40
49 N 018 49 N 019 49 N 020 49 N 021 49 N 022	AA BB CC DD	CG4206 CG4502 CG5601 CCG101	6" Hard Wire Diagonal Cutting Pliers 7" Diagonal Cutting Pliers—Full Fashioned Handles 5" Diagonal Cutting Needle-Point Pliers 4%" Soft Wire Needle-Point Diagonal Cutting Electronic Pliers 5" Blue Tompore Fields Needle-Point Diagonal Cutting	3.53 3.15 3.12 3.68	3.20 2.86 2.83 3.33
49 N 036	FF	CG3601	5" Blue Temper Finish Ignition Pliers 6" Short-Nose Diagonal Cutting Pliers	1.65 3.05	1.50 2.76

GG CG710 SLIP-JOINT PLIERS. 5-pcs. 3/6"-15/". Cushion grips. 10" long. 10 oz

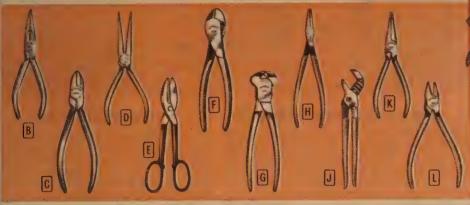
[HH] COMPOUND LEVERAGE CGS3 AVIATION SNIPS. Cuts 18-gauge metal. Ser-49 N 027. CGL1. For left cut.1-5, EACH 3.23

6-Up, EACH

[JJ] K-13 PATTERN SNIPS. Curved/straight 2" cut. Steel; 7" long. 7 oz.

Knight Precision Hand Tools

Inth hand tools—Allied's answer to your demand for quality tools at lowest cost. All made by a leading domestic manufacturer to meet Allied's rigid standards. Indusplants, shops and schools are invited to take advantage of quantity prices.





ALITY HAND TOOLS—INDIVIDUALLY TESTED FOR PERFORMANCE

One Year Guarantee

Durable High-Grade Tool Steel Made by a Leading Manufacturer

ular pliers, snips and nippers listed at tare used in service shops, labs and luction lines. Rigid quality control assereliability. Drop forged from highle tool steel and carefully heat treated optimum temper. Resist abrasion and r—built for years of service. Precision hined, fitted and adjusted for smooth on and maximum ease of handling have easy-on-the-hand plastic cushions except tin snips. Av. wt., 10 oz.

Stock No.	Fig.	Description		6-Up
50 N 131	A	6½° Side Cutting Pliers	1.89	
50 N 132	B	6" Chain-Nose With Cutters 6" Chain-Nose Pliers	2.10	1.52
50 N 133	C	5' Diagonal Cutting Pliers	1.84	1.63
50 N 134	C	6' Diagonal Cutting Pliers	2.12	
49 N 029 50 N 135	D	7" Diagonal Cutting Pliers 7" Chain-Nose With Cutters	2.50	
49 N 038	E	8' Straight Cut Tin Snips		1.36
49 N 030	H	7" End Cutting Nippers	-	2.27
49 N 031		8" Assembly Pliers 10" Tongue and Groove Joint	2.04	2.33
	i	Pliers (5 Adjustments)	1.99	1.78
49 N 033	J	14" Tongue and Groove Joint Pliers (5 Adjustments)	2.43	2.17
49 N 034		6" Cutting /Stripping Pliers		2.48
49 N 035	L	5" Needle-Point Diag. Cutter	2.68	2.40

15-PC. NUT-SCREWDRIVER KIT

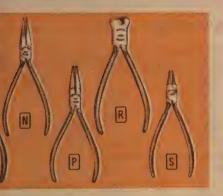
Roll pack holds: molded plastic handle; 6" extension; 7 nutdrivers—3/16", ½", 5/16", 11/32", 3/8", 1/16", and ½"; No. 11 and No. 2 Phillips, and ½", 3/16", ½" slotted screwdrivers. Precision ground blades for accurate fit. Wt., 1½ lbs.

50 N 788 ONLY 7.95

8-PIECE NUTDRIVER KIT

7 nutdrivers: $^3/_{16}"$, $^1/_4"$, $^5/_{16}"$, $^1/_{32}"$, $^3/_8"$, $^7/_{16}"$, and $^1/_2"$ in rack. Molded, color-coded plastic handles. Nickel-chrome plated drivers. Steel shafts are $6\frac{3}{4}"$, except $6\frac{1}{4}"$ on $^1/_{46}"$ and $^1/_2"$ drivers. $1\frac{3}{4}$ lbs.

50 N 787 ONLY 5.75



JEWELERS' PLIERS

One Year Guarantee

Comfortable Plastic Cushion Grips Selected Tool Steel for Strength

cision pliers made by a leading manuturer for work on miniaturized assems and delicate mechanisms. Feature stic cushion grips for fatigue-free use.

op forged from high-quality tool steel—
It treated for durability. Accurately maned for smooth action. *Chain, flat
I round-nose pliers have smooth jaws
In no cutters. Chain and flat-nose have
"inside length; round-nose has 3/4".

ain and round-nose taper to 1/2" point;
-nose to 5/32". Av. wt., 5 oz.

tock				NET	EACH
No.	Fig.	Description		1-5	6-Up
N 370 N 371 N 373 N 372 N 037	N R P	4½" Diagonal Cutting 4½" Chain-Nose* 4½" End-Cutting 4½" Flat-Nose* 4½" Round-Nose, Rou Jaw*	nd-	2.35	1.72



NUTDRIVERS. Chrome vanad. steel. Color-coded handles: hardened skts.

Stock No.	Nut Size	Length	. Wt	1-5,- EA.	6-Up,EA.
45 N 384		61/4"	2 oz.	.68	.60
45 N 385	3/4"	6¾*	2 02.	.68	.60
45 N 386		6¾ "	2 oz.	.68	.60
45 N 387	11/32"	6¾"	2 oz.	.68	.60
45 N 388	3/8"	6¾"	2 07.	.68	.60
45 N 389	7/16"	6%	4 oz.	.83	.74
45 N 390	1/2"	61/8"	4 oz.	.83	.74

SCREWDRIVERS. Chrome vanadium steel. Amber colored handles. *No. 1 Phillips. †No. 2 Phillips. §With pocket clip.

Stock No	Fig.	Shaft	Lgth.	Wt.	1-5, EA.	6-Up,EA
45 N 37		1/8 × 4"	6¾*	2 02.	.33	.29
45 N 37	75 W	3/8×6"	83/4"	2 oz.	.36	.31
45 N 37	76 W	1/4 x8"	10¾"	2 oz.	.44	.39
45 N 37	77 W	3/4×4"	75/2"	4 oz.	.63	.55
45 N 37		1/4 x6"	9%"	4 oz.	.68	.60
45 N 37	79 W	1/4 x8"	11%"	7 oz.	.71	.63
49 N 03	39 W	3/16X4"	73/2"	2 oz.	○.51	.45
49 N 04	W O	3/16X6"	9"	2 oz.	.58	.52
49 N 04	11 W	3/16X8°	111/5"	2 oz.	.63	.56
49 N 04		5/16X8"	12"	4 oz.	.89	.79
45 N 38	30 Y	3/32X3° §	51/2"	2 oz.	.26	.24
45 N 38	31 Y	1/2 x3" §	4 1/8"	2 oz.	,22	.20
45 N 38	32 X	3/16×3"*	61/2"	2 oz.	.60	.53
45 N 38	33 X	1/4 x 4"+	7%"	6 02.	.71	.63

SQUARE BLADE SCREWDRIVERS

Extra blade strength for heavy-duty use. Chrome vanadium steel shaft contains about 25% more steel than conventional round bladed screwdrivers.

STOCK NO.	Snart	reugin	WE.	1-0, LA.	b-up,tA.
49 N 043	3/4×4"	75%"	3.02.	.83	.74
49 N 044	5/16×6"	101/4"	41/2 02.	1.14	1.01
49 N 045		121/4"	· 7 oz.	1.17	1.04
49 N 046			8 oz.	1.26	1.12
49 N 047	%x12"	161/2"	12 oz.	1.62	1.44
		AL PRINCIPLE PRINCIPLE PRINCIPLE			-

REGULAR STUBBY

Rugged Amber colored handle. Chrome vanadium steel 1/4x11/4" shaft. Length is only 3". Shpg. wt., 2 oz. 49 N 048 12 1. 1-5, EA. .51 6-Up, EA. .45

PHILLIPS STUBBY

BB For close quarters. Chrome vanadium steel blades. Amber handles. No. 1 has 3/1ex1 1/2" shaft; 3" length. No. 2 has 1/4" shaft; 3 1/2" length. Wt., 2 oz. 49 N 049. No. 1, 1-5, EA. .586-Up, EA. .52

49 N 051. No. 2. 1-5, EA. .60 6-Up, EA. .53

Famous XceLite Quality Screwdrivers and Nutdrive









99SM SERVICE MASTER KIT

Meets almost every radio-TV servicing need. Set contains: long-nose pliers; diagonal pliers; 6" adjustable wrench; nine regular nutdrivers in sizes from $\frac{3}{16}$ " through $\frac{1}{2}$ "; $\frac{1}{4}$ " stubby nutdriver; $\frac{5}{16}$ " stubby nutdriver; $\frac{1}{8}$ " stubby nutdriver; 3/16" slotted screwdriver; 9/2" slotted screwdriver; No. 1 Phillips screwdriver; 1/8" - 3/6" reamer; 1/4" - 1/2" reamer; 8" extension; regular handle and stubby handle. Roll-up kit with pockets, 23/ lbs 43 N 884. List, \$38.15.....NET 22.89

49 N 006. 99-30 Allen Hex Screwdriver Blade Set. Not illus. 4" shafts fit handles of 99SM and 99PR sets. Sizes, 1/16, 5/64, 3/32,

99PR NUT & SCREWDRIVER SET

Versatile, chrome-plated 13-piece set in durable, plastic roll-up kit. Includes 1/6", 1/32", 1/4", 1/32", 1/4", 1/32", 1/4", 1/32", 1/4" and 1/2" nut drivers; 2 combination screwdrivers (3/16" and 3/12" standard, No. 1 and No. 2 Phillips); plastic handle. Wt., 2 lbs.

45 N 738. List, \$14.45.....NET 8.67 45 N 787. Model 99X10 8" Extension. For 99 series. 5 oz. List, \$1.45.....NET 87c

127 NUTDRIVER SET

Sockets are deep enough to handle two nuts. Depth of shaft hole, 11/4". Includes 7 wrenches, sizes 3/6" to 3/6" in 1/2" steps. Blades are nickel plated. Metal holder. 7 1/2×7 /4×1 1/4". Shop. wt., 21/4 lbs. 45 N 735. List, \$10.75.....NET 6.45

137 NUTDRIVER SET

7 color-coded nutdrivers with self-supp ing rack. Colors and sizes: blackred—1/4", yellow—1/46", green—1/42", b—1/48", red—1/42", and brown—1/48". Polisl steel shanks. The 1/4" and 1/46" drivers h hollow shafts. Shpg. wt., 3 lbs.
45 N 734. List, \$11.95.........NET 7.

17 NUTDRIVER SET

Seven nutdrivers in commonly used si for radio-TV work. Sizes and colors: bli — 3/6", brown— 3/2", red— 1/4", orang. 9/3", amber— 5/6", green— 1/42" and blu. 3/6". With metal rack, Wt., 2½ lbs.

45 N 733. List, \$10.50 . . . but with hollow shafts. Wt., 2 lbs

47 N 092. List, \$13.30.....NET 7



High-quality screwdrivers. Chrome vanadium steel shafts. plastic handles.





A ROUND SHAFT SCREWDRIVERS. Winged design prevents turning of blade in handle. In lengths from 41/4" to 12".

Stock	Mfr's	Sha	Shaft Size		Shpg.	1	NET	
No.	Туре	Dia.	Length	Length		List	EACH	
43 N 845	R-182	1/8"	2"	4½"	3 oz.	\$.55	.33	
43 N 846	R-184		4"	6½"	3 oz.	.65	.39	
43 N 847	R-186		6"	8½"	4 oz.	.70	.42	
43 N 848	R-188		8"	10½"	4 oz.	.90	.54	
45 N 795	R-144	1/4"	4"	8"	6 oz.	1.30	.78	
45 N 796	R-146		6"	10"	6 oz.	1.40	.84	
45 N 797	R-148		8"	12"	7 oz.	1.50	.90	

SET-SCREW TYPE SCREWDRIVERS. Narrow-blade screwdrivers fit standard set-screws. Have pocket clips

43 N 830 R-3323SS | 43 N 831 R-184SS

C SQUARE-SHAFT SCREWDRIVERS. Available in a variety of lengths from 75/8" to 18".

Stock			Shoa	Shpg.			
No.	Туре	Dia.	Length			List	NET
43 N 82 43 N 83 43 N 83	2 S-144	3/16" 1/4" 1/4"	4" 4" 6"	75/8" 8" 10"	4 oz. 6 oz. 6 oz.	\$1.15 1.45 1.55	.69 .87
43 N 83 43 N 83 43 N 83	7 S-388	3/8"	8" 8" 12"	12" 121/8" 18"	7 oz. 1 lb. 11/4 lb.	1.70 2.30 3.30	1.02

D PHILLIPS SCREWDRIVERS, *Stubby type. †With po

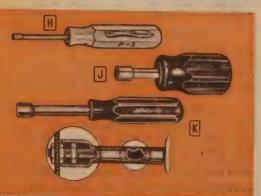
Stock Mfr's		S	haft	Overall	Shpg.	1	1	
No.	Type	Tip		Length	Wt.	List	E	
45 N 345 43 N 876 43 N 877 43 N 878	P-12S† X-101 X-108 X-102	No. 0 No. 1 No. 1 No. 2		4" 63/8" 10" 73/4"	3 oz. 5 oz. 5 oz. 6 oz.	\$.65 1.15 1.25 1.45		
43 N 879 43 N 881 43 N 882 43 N 883	X-1020 X-103 SX-101 SX-102	No. 2 No. 3 No. 1 No. 2	10" 6" *17/16" *15/16"	133/4" 10" 23/4" 31/4"	8 oz. 10 oz. 3 oz. 5 oz.	1.95 1.95 1.05 1.15	1	

CLUTCH HEAD SCREWDRIVERS. Fit clutch head sci used in sheet metal assemblies, electronic gear, etc. G-183 G-5324 G-3164 1.20

STUBBY SCREWDRIVER. 1/4" square shaft, polished bl. Ideal for work in cramped space.

43 N 844 S-141 |Reg. | 11/4" | 31/4" | 5 oz.

COMBINATION-BLADE SCREWDRIVERS. With handl Blade Combination Mfr's Type Regular #1 Phillips Regular #2 Phillips Regular #3 Phillips



HEX NUTDRIVERS FOR FASTER SERVICING

Fig. K has hollow shaft for tightening nuts on long screws. Fig. J is stubby type for limited space. Fig. H is pocket-style nut-

Stock No.	Mfr s Type	Fig.	Nul Size	Handle	Length	NET
45 N 324 45 N 325	P-3 P-4	H	3/32"	Amber Red	3%" . 3%"	.48
45 N 326 50 N 141	P-5 P-8	H	5/2"	Amber Red	3%"	.48
50 N 142	P-10 P-12	H	3/16"	Amber	3%"	.48
45 N 857 45 N 858	S-8 S-10	ĵ	3/4	Red Amber	3¼"	.63
45 N 859 49 N 007	S-12 HS-6	j K	3/16"	Blue Black	3¼ °	.63

driver. Type HS-18 fits %" volume connuts. Shpg. wt., 6 oz., except Models \$ S-10, S-12, which are 5 oz.

Stock No.	Mfr's Type	Fig.	Nut Size	Handle	Langth	E
49 N 008 45 N 779	HS-7 HS-8	K	7/10"	Brown Red	6"	Ī
47 N 093 45 N 780 45 N 781	HS-9 HS-10	K∘ K	/32	Orange Amber	6%	
45 N 782 45 N 783		K	/32 %	Green Blue	6"	-
45 N 784 45 N 785	HS-14 HS-16 HS-18	K	7/16" 1/2"	Brown Red Orange	7" 7" 7"	
45 N 786	HS-20	K	1/16	Amber	7"	ì

ssorted Hardware for Servicemen and

8 screw

G-C ASSORTED RADIO AND TV HARDWARE

An excellent selection of high-quality hardware for radio-TV construction and repair. Available in 35c quantities packed in handy, reusable, hinged plastic boxes or in lots of 100 and

ROUND HEAD SCREWS. For electronic repair and construcon jobs. Plated steel. Shop, wts.: 3 oz.; 14 oz.; and 5 lbs.

	35c cont	ainer	Part	100-Let	Pkg.	1000-Lot	Pkg.
Size	No.	Quan.		No.	NET	No.	NET
36x1/4"	44 N 502		6005	42 N 700		44 N 742	
36x ¹ / ₂ " 36x ³ / ₄ "	44 N 503		6006	42 N 701 42 N 702	.51	44 N 745 44 N 748	
32x1/4"	44 N 505		6008	42 N 703		44 N 704	
32x1/2" 32x3/4"	44 N 506		6009	42 N 704 42 N 705		44 N 7 2 44 N 7 7	
32x1"	44 N 508	30	6011 7141	42 N 706 42 N 707	.82	44 N 722 44 N 727	
32x1 1/4" 32x1/4"	44 N 509		6013	42 N 708		44 N 739	
32x3/8"	44 N 519	25	6014	42 N 709	.73	44 N 754	5.86
$32x\frac{1/2}{32x^{3/4}}$	44 N 529 44 N 535		6015	42 N 710		44 N 757 44 N 762	
32x1*	44 N 546		6017	42 N 712	1.03	44 N 769	
32x1/2" 32x3/4"	44 N 548		6020	42 N 713 42 N 714		44 N 778	
32x1"	44 N 553		6022	42 N 7 15		44 N 784	

SELF-TAPPING SCREWS, Flat-slotted type, Ideal for panel and rack mounting. Plated steel. Hex head. Shpg. wts.: 4 oz.; oz., and 41/2 lbs.

44 N 565 30 44 N 566 25	6091 42 N 716 .73 6093 42 N 717 .83 6093 42 N 718 .90 6096 42 N 719 1.06 6099 42 N 720 1.24	44 N 809 6.70 44 N 814 7.17 44 N 824 8.47
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HEX NUTS, Plated steel. Shpg. wts.: 4 oz.; 8 oz.; 3 lbs.

-36x 1/4"	44 N	584	30	6041	42	N 728	.65	44	N 907	5.18
-32x3/6" -32x11/32"	44 N	579	30	7233	42	N 730	.72	44	N 911 N 916 N 919	5.73
-32x3/8"	44 N		30	6044	42	N 731	.95	44	N 9 1 9	7.53
-32x1/4" -32x1/4"	44 N 44 N	586 587	30 30	6043	42	N 733	.72	44	N 953 N 954	5.73

BINDING HEAD MACHINE SCREWS. Plated. 4 oz.; 7 oz.;

-32x 1/4" -32x 3/6" -32x 1/2" -32x 3/6" -32x 1/2"	44 N	576 577	35 35	7152 42 7153 42 7118 42 7119 42 7120 42	N 723 N 724 N 725 N 726 N 727	.52 .55 .63 .71	44 P 44 P 44 P 44 P	694 696 622 624 625	4.15 4.41 5.01 5.64 6.13
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1000, Nuts, screws and washers are nickel-plated. *G-C part number applies to 100 and 1000 lot packages only. Stock up now at lowest prices.

E INTERNAL STAR LOCKWASHERS. Wts: 2 oz.; 4 oz.; 1 1/4 lbs. 100-Lot Pkg. | 1000-Lot Pkg. 35c container Siza No. Quan 7324 42 N 798 7326 42 N 736 7328 42 N 737 7330 42 N 738 .45 44 N 188 .45 44 N 924 .49 44 N 929 .49 44 N 934 44 N 187 44 N 597 44 N 598 44 N 599 50 50 4 screw 6 screw 8 screw

SPLIT LOCK WASHERS. Tempered steel. Wts.: 2 oz.; 4 oz.; 2 lbs.

44 N 197 44 N 588 44 N 589 44 N 196 screw # 6 screw # 8 screw #10 screw

EXTRUDED FIBER WASHERS. Choice of 4 sizes. Overall thickness 1/16". Shpg. wts.: 3 oz.; 14 oz.; and 5 lbs.

42 N 771 42 N 773 42 N 775 42 N 777 6525 42 N 739 .84 42 N 6526 42 N 740 .84 42 N 6527 42 N 741 .92 42 N 6528 42 N 742 .92 42 N 35 35 35 35 35 No. 6 No. 8 No. 10

SOLDER LUGS. Sturdy, tinned units. Accommodate the screw numbers given below; No. 8 holes alsotake No. 6 screws. *Part no. for 100, and 1000 lot pkgs. only. Shpg. wts.: 2 oz.; 7442 42 N 746 I.I.2 44 N 637 7445 42 N 747 I.I.7 44 N 640 1021A 42 N 748 I.II 44 N 643 7455 42 N 749 I.8I 44 N 648 7451 42 N 750 .85 44 N 649 # 8 Fig. H 44 N 603 # 8 Fig. J 44 N 604 #10 Fig. K 44 N 605 # 8 Fig. L 44 N 607 # 8 Fig. M 44 N 608

RUBBER GROMMETS. Soft, black stock. Sizes shown are mtg. hole required and inner dia., respectively. Shpg. wts.: 2 oz.; 8 oz.; 4 lbs

1041-2 42 N 751 | 1.10 44 N 437 8.75 1041 42 N 752 | 1.23 44 N 440 9.88 1042 42 N 753 | 1.66 44 N 443 | 3.23 1043 42 N 754 | 1.86 44 N 446 | 14.85 1043-1 42 N 755 2.81 44 N 449 25.87 5711 42 N 756 3.46 42 N 786 27.69 42 N 757 5.63 42 N 788 45.02 44 N 618 44 N 619 44 N 620 44 N 627 44 N 628 42 N 785 42 N 787 14 12 10

RUBBER FEET. Take screws, nails, etc. For wood or metal cabinets. Shpg. wts.: 3 oz.; 9 oz.; 41/4 lbs.

1075B 42 N 764 .89 44 N 155 7 44 N 763 44 N 764

-G-C HANDY PLASTIC BOXES OF MOST-OFTEN NEEDED SERVICING HARDWARE -

wide selection of most-often-needed hardware in clear-plastic boxes. High-quality materials. All are assortments. *Approx. wt. 4 oz.

ockN	0.	Description	Quant.*
N 6	50	Extra small size escutcheon and wood screws.	25
N 6	5 1	Assorted wood screws with	20
, 14 0.	,	round heads.	25
N 65	52	1/4-1" mach. screws; round	
		and flat heads: #6, 8, 10.	35
3 N 3	10	Nos. 2 & 4 screws & nuts.	35
3 N 6:	53	Sheet metal screws, No.	10
		4x1/2".	35
3 N 6	54	Nickel-plated rack screws	4.5
Mark St.		and cup washers.	15
3 N 6	55	Sheet metal screws, asst.	95
		4,6,8,10. Hex. & slotted.	25
3 N 6	57	Spade bolts; #6, #8 holes. Assorted set screws—6-32,	15
3 N 61	80	Assorted set screws0-32,	
		8-32, 10-32.	15
3 N 6:	58	Tinnerman speed nuts.	30
FTP	FS	BOX	35¢

Sto	el	No.	Description	Quant.*
43	N	659	Asstd. internal lockwashers	50
43	N	660	Asstd. hex nuts.	30
43	N	661	Hex & ring mounting nuts.	12
43	N	380	Asstd.extrudedfibrewash-	
			ets.	30
43	N	662	Assorted flat fiber washers.	
			Nos. 6 to 15/32".	35
43	N	663	Assorted metal washers.	
	, .		Nos. 4 to 5/6".	80
43	N	664	Rings & C-washers for 1/6-	
73			1/4" shafts.	25
43	N	665	Snap-hole plugs-1/4"-11/2".	8
43	N	666	Asstd. ventig. hole plugs.	44
			Assorted rivets.	55
			Solder lugs#6-10.	30
43	N	669	Metal spacers. For #6 and	
7.3		937	#8 screws.	12
NE	T	PEF	BOX	35¢

Stock No.	Description	Quant.*
43 N 670	Insulated spacers for #6	12
	Assorted hairpin cotters.	50
	Cable clamps, 1/8 to 5/6". Smallcompressionsprings.	20
43 N 337	Regular dial drive springs.	8 10
	Small dial drive springs. Radio knob springs.	18
43 N 677	Cord strain relief for POSJ	5
	Rubber chassis mounts.	12
43 N 678	Rubber grommets. For cables, metals to 1/4".	. 15
	Standard thin dial cord.	10 ft.
	Standard dial cord. Assorted radio knob set	10 ft.
73 11 300	screws.	15
NET PER	BOX	35¢

HOME SHOP ASSORTMENTS

49 N 986. Asstd. Solder Lugs. 11/2 lbs.,...NET .79 49 N 987. Assorted Screws, Nuts and Bolts. 49 N 988. Assorted Springs. 1 1/2 lbs..... NET .79

9 A 403. Machine Screw Assortment. 2-pound box. Includes

4 N 315. Hardware Assortment. Large assortment of rivets, ubber grommets, nuts, screws, washers, eyelets, etc. Plastic ontainer. 1 1/4 lbs......NET .77



G-C PLUG BUTTONS

For filling unused holes in metal, wood, fiber, etc. Also provide ventilation wherever required. Spring tension prongs hold nickel-plated, solid top steel plug buttons firmly in position. *Screen type ventilated top, zinc-plated steel button. Av. wts., 2 oz.

Stock	For Hole	NET	EACH	Stock	For Hole	NET	EACH
No.	Dia.	1-49	50-99	No.	Dia.	1-49	50-99
51 N 356 51 N 357	1/2"	.02	.012	51 N 361 51 N 362	7/9"	.03	.015
51 N 358 51 N 359	5/3"	.02	.012	51 N 363 51 N 364	11/4"	.06	.03
51 N 360	3/4" . 51	.02	.012		1		



X-ACTO NO. 1 KNIFE. For light to med-

ium work. 5" aluminum handle; 5/16" dia.

Selected High-Quality Hand Tools



With No. 11 blade. Shpg. wt., 3 oz.

50 N 608. NET .53

NO. 11 BLADES. 5 per pkg. 2 oz.

50 N 610. Per Package of 5 .53

NO. 10 BLADES. 5 per pkg. 2 oz.

50 N 609. Per Package of 5 .53

ULSTER K-29W ELECTRICIANS' KNIFE.

Two 2½" blades: screwdriver-wirescraper; spear shape. Overall 3¾". 5 oz.

45 N 843. NET 1.49

MILLERS FALLS UTILITY KNIFE. Cuts veneer, etc. 5" long. 5 blades. ½ lb.

46 N 308. NET .75

50 N 171. Pkg. of 5 Blades. 2 oz. NET .37

E G-H 79 CENTER PUNCH. Pressure handle triggers spring which driv punch. Tension adjusts for light or heapunch. 5"x ½" dia. 5 oz.

46 N 195. NET 3.

F G-H 806 CENTER PUNCH. For hal ware with countersunk mounting hold Tap pin and work is marked. 2 oz.

G SKIL "PERMA-GRIT" FILES. Tun sten-carbide abrasive. 1 coarse, 1 fi size. 14" overall. Wt. 8 oz

Stock No.	Туре	Description	EAC
50 N 062	18730	Flat File	1.0
50 N 063	19859	Contour, Coarse	
50 N 064	19860	Contour, Fine	



Drop forged; black baked enamel. Hickory handle. 14" long. 1½ lbs. 56 N 577. NET 1.33

K GREAT NECK R-16C CLAW HAM-MER. 1-piece steel construction; rubber-cushioned handle. 13" long. 1 ½ lbs. 45 N 848. NET 3.53

Octagon neck, handle; claw back. Black baked enamel. 13" long. 1½ lbs.

NET 1.42

PERBER HACK SAW. Adjusts for 10-12" blades. ½" tubular steel frame. With 10" blade. Wt., 1½ lbs. 47 N 009. NET 1.49

N FORSBERG V-35 4-WAY KEYHOLE HACKSAW. 7½" blade. 6 oz. 46 N 341. NET .34 EXTRA BLADE. Shpg. wt., 2 oz. 46 N 342. NET .14

P COPING SAW. Hardwood, lacquered handle. Ratchet locks blade. With 6 ½" blade. Throat depth, 4 ¾", 4 ¾ lbs.

45 N 878. NET .45

EXTRA BLADES. 2 per pkg. 3 oz.

45 N 876. Per Pkg. of 2. .10

Drop forged alloy steel. Chrome finished heads. *Tip thickness.

Stock No.	*Thick- ness	Size	Jaw. Open	Shpg. Wt.	NET
46 N 481 46 N 483 46 N 484 46 N 485	3/16" 15/64" 9/0"	4" 6" 8" 10" 12"	3/4" 15/6" 1 1/2"	2 oz. 4½ oz. 8 oz. 1 lb. 1½ lbs.	2.22

TRU-CUT 10-DC LOCK WRENCH.
Up to 1000 lbs. pressure. Fingertip release. Opens to 1 ½".10" long.1 ½ lbs.
46 N 434. NET 1.72

 X KNEISLEY MINIATURE KS-111
DRILL SET. 20 drills from No. 6
(.039") to No. 80 (.0135"). Highest-grad
carbon steel. 4-jaw chuck with 1/4" shan
Transparent lucite case. 6 oz.
46 N 799. NET 6.2

MASTER HAND REAMER. 1/8" til Plastic handle. 8" long. 6 oz. 46 N 244. NET .8

THENRY HANSON 120 HAND REAM ER. 1/8" tip, 5 1/2" long. 9 oz. NET 1.1!

AA VLCHEK X2567 OPEN-ENI WRENCH SET. 5 wrenches—1 openings: 3/8"-3/8". 3/8" and 3/6"; 3/2" and 9/6' 13/2" and 11/16"; 5/8" and 3/4"; 13/6" and 3/6" and 3/4"; 13/6" and 3/4" and 3/4"; 13/6" a

VLCHEK X3412 OPEN AND BOX-ENI WRENCH SET. (Not illus.) 5 wrenches-%" to %". On each end: %". 7/6". 1/2", 1/6 and %". Chrome plated. % ib.

50 N 120. NET 2.11

BB VLCHEK 3256 PUNCH AND CHISEI SET. High-carbon tool steel. Con tains ½" and ½" edge chisels; ½" and ½ solid punches; ½" center punch. Brighth plated. Plastic pouch. ¾ lb.

50 N 125. NET 1.35

Time-Saving Workshop Tools



TYPE 733 "D" PUNCHES. For cutting "D" shape hole in chassis with ordiary wrench. Cut to 16-gauge metal. 2 lbs. **0 N 973.** For ½" hole.......NET **3.96 0 N 974.** For ½" hole......NET **4.18**

C 732 "KEYED" PUNCHES. Insert punch in hole, turn with wrench. Require 1/2" hole except *1/4" hole. 1 1/2 lbs.

Nock No. Sixe NET Stock No. Sixe NET 16 N 214 *152" 4.41 46 N 186 1114" 4.98 16 N 184 11/4" 4.41 46 N 189 1174" 5.40

BALL-BEARING DRIVE SCREWS. For 730 punches (at right). 1 lb. 1774 17 N 018. AV322-BB. For 11/16", 3/4", 15/16" NET .88 17 N 019. AV112-BB. For 1" and 11/2" bunches.....NET .97

50 N 169. AV304-BB. For 225/32" punch, (indicated by f in table)......NET 2.30

REPLACEMENT CAP SCREWS FOR ROUND HOLE PUNCHES, Shoa, wt., 40z.

Sta	ok No	. Size	For Punch Size	NET
46	N 18	2 1/4"	1/2" and 5/8"	.26
	N 18		11/6" to 7/8"	.26
	N 16		1" to 11/2" (except 1%")	.30
	N 29 N 34		11/4", 15/4", 13/4" 11/4" to 225/6"	.53
70	14 74	w: /4	12/8 00 4 /13	

HP MODEL 500 NUT CRACKING TOOL. Cracks nuts from 3/6" to 13/6". Cannot damage bolts. Easy to use; set chisel at right angle to the flat of the nutgrip firmly—then swing ratchet on forcing screw. Up to 25,000 lbs. pressure. Wt., 11/4 lbs. 50 N 583... NET 5.95



OFFSET SCREWDRIVERS

45 N 835. For Phillips screws. 4 oz... NET .54 43 N 843. Std. screws 4 1/2". 4 oz.... NET .54



VLCHEK HEX-KEY WRENCH SET

Nickel-chrome steel wrenches in steel frame. Sizes, .050" to 3/16". Wt., 4 OZ. 50 N 128....NET .88



RATCHET KNOCKOUT PUNCH DRIVER. Lightweight punch driver is 6 to 8 times faster than wrench method! For use with standard punches 1/2" to 3" and 730 punches 11/6" and larger. Fast cutting action in 10-gauge or lighter material. Includes knockout driver assembly; leverage handle; ratchet handle; 3 adapter screws for ½" to 3" punches and round punches 11/16" to 225/2". In metal carrying case. Less punches. 13 ibs. 47 N 017. \$5 Monthly......NET 48.51

F 730 ROUND PUNCHES. For sockets, controls, panel lights, etc. Cut through sheet metal, bakelite, hard rubber, etc. Cut through metals up to 16-gauge thickness. Operate with ordinary wrench-no reaming or filing is necessary. Meter cutout. Av. shpg. wt., 11/2 lbs.

Stock No.	Hole Size	Lead Size	EACH
46 N 169 46 N 177 47 N 014 46 N 000 46 N 170	1/2" 5/8" 3/6" 11/16"	/4. /4. /4. /4. /4. /4.	2.29 2.29 2.29 2.29 2.29
46 N 001 46 N 171 47 N 015 46 N 172 46 N 178	12/5" 7/8" 15/6" 1" 1 1/6"	1/a 1/a 1/a 1/a	2.29 2.29 2.51 2.51 2.65
46 N 173 46 N 179 46 N 174 46 N 175 46 N 176 46 N 180	1 1/8" (1 1 1/4" (1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1 1/4" (1	3/6	2.65 2.65 2.65 2.65 3.18
46 N 0 1 1 46 N 1 1 10 46 N 1 1 16 46 N 1 8 1 47 N 0 1 6 46 N 2 0 9	15/8" 13/4" 2" 21/4" 21/2" 21/4"	3/A************************************	4.28 4.84 6.52 7.02 11.47 11.02

ADEL METAL "NIBBLING" TOOL

"Nibbles" holes; slots or openings in 18-gauge steel, aluminum or other soft metals up to 1/16" thick. Leaves



smooth, flat edges. Minimum hole size is 3/16" diameter. Shpg. wt., 8 oz.

43 N 863. 12-Up. EA. 3.60 1-11. EA. 3.85

REPLACEMENT PUNCH FOR ABOVE. Easy to install. Shpg. wt., 2.oz. 50 N 130.....NET 1.87

WALSCO HEX SPLINE KEYS

7 Allen and 4 Bristol key-type, L-shaped wrenches fit screws ranging in size from No. 2 to 36". Packed in leatherette case. Shpg. wt., 1/2 lb.

46 N 166.....NET 1.32

H. H. SMITH WRENCH SET

6 Allen wrenches fit screw numbers 4, 5, 6, 8 and 10 as well as 1/1" and 5/16" size. Leatherette case has individual pockets for each wrench. Wt., 3 oz.

12 Sets or More......NET EACH .64



- Deluxe Set—39 Pieces
- 17 Tap and Die Sizes

MODEL 614V TAP AND DIE SET. 1 each tap and die: 4-36, 6-32, 8-32, 10-24, 10-32 and 12-24 (Machine Screw Standard). 1/4-20, \$\frac{5}{16}\$-18, \$\frac{1}{2}\$-16, \$\frac{7}{16}\$-14 and \$\frac{1}{2}\$-13 NC (U.S. Standard), \$\frac{1}{2}\$-28, \$\frac{5}{2}\$-24, \$\frac{7}{2}\$-20 and \$\frac{1}{2}\$-20 NF (S.A.E. Standard), \$\frac{7}{2}\$" pipe. Includes die stock, tap and reamer wrench, "T" tap wrench, screwdriver and screw pitch gauge, 4 lbs.

46 N 245. \$5 Monthly.....NET 25.70

INDIVIDUAL TAPS AND DIES. Tough carbon steel. Right-hand thread. 2 oz.

Size	Tap.	EACH	Die	EACH
6-32 8-32 10-32	46 N 700 46 N 701 46 N 702 46 N 704 46 N 703	.30 .30 .34	46 N 706 46 N 707 46 N 708 46 N 710 46 N 709	.44
	46 N 705		146 N 711	

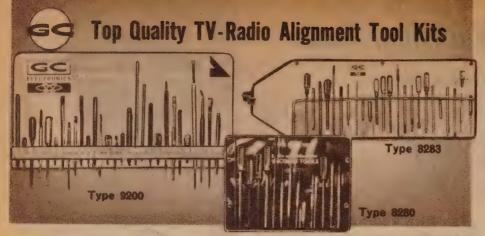
TAP WRENCH. "T" handle unit for above taps. Shpg. wt., 2 oz. 46 N 713. NET .45

MODEL 20 SCREW EXTRACTOR SET. 4 extractors remove broken screws 5/12" to 1/2", bolts, studs, 1/2" and 1/2" pipe. Heat-treated alloy steel—practically unbreakable. In hardwood box. 1 lb.

MODEL 21 RADIO TAP-DIE SET. 1 each plug tap and die: 6-32, 8-32, 10-24, 12-24, 1/4-20. Solid dies, 1" dia. High-carbon tempered steel. Includes tap-reamer wrench. In mahogany box. 3 lbs.

46 N 025.....NET 7.05





TYPE 9200 PANEL KIT. Convenient, wall mounting kit of 27 most needed radio-TV alignment tools. Each tool has separate slot. Made of finest materials—low-loss plastics, tips of hardened spring steel, extra-hard bone fiber. Includes: various length alignment screwdrivers, special short tools, alignment wrenches, channel tuners, core aligners, oscillator adjust-ment tools, trimmer and IF aligners, solder

TYPE 8283 MASTER DELUXE TV TOOL KIT. Complete 25-piece alignment tool kit. High-quality tools, none over 9" long. Includes: K-Tran tool, core aligner, longreach aligner, flexible wand, short tool, etc. Roll case. Shpg. wt., 1 lb. 42 N 005 NET 13.88

TYPE 8280 DELUXE TV ALIGNMENT TOOL KIT. Roll case of 16 specially engineered tools. Tips are hardened spring steel. Includes: "Shorty," duplex aligner, tuning wand, core aligner, oscillator tool, long-reach aligner, etc. 8 oz.

42 N 006.....NET 8.45

probe, nylon replacement tip, hex tools, etc. 3-color steel panel for quickly reaching the immediately-needed tool. 2-hole mtg. Shpg. wt., 3 lbs. 42 NX 341 TV Alignment and Tuning Tools G

Stock No. Type |Fig.



The state of the s			Daggi (ption)	UZ.	TWEE !
42 N 378 42 N 381 42 N 383 42 N 391	8275 5097	A B C D	Short duplex aligner Zenith universal aligner K-tran and IF aligner 9" nested core aligner	3 3 3	.50 .50 .76
42 N 382 42 N 393 42 N 395 42 N 386	8271 8722 8277	E F G H	Stackpole stud-type core aligner 7" duplex #4 and #6 stud aligner 2½" duplex aligner 12½" nylon tip aligner	3 3 4	.56 .65 .50
-					
Stock No.	Туре	Fig.	Description	Oz.	NET
Stock No. 42 N 387 42 N 397 42 N 348 42 N 394	8608-E 8273 9298		Description Replacement nylon tip for above All-purpose TV aligner 2" blade alignment tool Channel tuning tool	Oz. 3 3 5 3	NET .24 .67 .47

Equipto Steel Stands and Trucks



STURDY STEEL TRUCKS

Rugged steel trucks with round beader edges for strength and rigidity. Rubber tired 5" wheels; rear wheels swivel, 4 deep trays hold 600 lbs. Top tray inverti to become table top. Olive-green finish

Stock	Mfr's	Size	NET
No.	Type	HWD	EAC
86 NZ 090	150	36x24x36"	39.90
86 NZ 092	145	36x16x30"	29.90

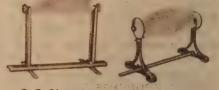
86 N 093. Type 146 Shelf. Attaches to above trucks, 8½x11", 5 lbs.... NET 2.5

CHASSIS STANDS

For moving or working on radio-TV chas sis, heavy test equipment, etc. Rugger steel construction; 2½" solid rubber-tired wheels. Lower shelf for tools, parts, etc. 34x18x24"

		Description	Wt., Lbs.	NET
86 NZ 087 86 NZ 088	710 711	Metal top Wood top		16.3

Chassis Holders



G-C Chassis Cradle

"Repairack"

G-C CHASSIS CRADLE. Adjustable cradle holds chassis securely, rotates 360°. Size, 24" long, 14" high, 12½" wide. Shpg. wt., 7 lbs. 86 NX 034..... NET 7.35

JFD "REPAIRACK." Unusually sturdy cast-iron rack. Chassis clamps hold any radio or television chassis up to 200 lbs. in weight and 32" in length. Rotates 360°. Overall size, 143/x32x15". Shpg. wt., 18 lbs.

36 NX 038. **NET 29.40**



hex wrench 3 3 3 3	.47
gner: 3	.36
h 3	
wrench 4	.62
och 3	.52
3	.41
vdriver 3	.91
vdriver 3	1.20
wdriver 3	.42
	edriver 3

Stock No. Type	Fig.	Description 30	Oz.	NET
42 N 389 8728 42 N 390 8729 42 N 420 9347 42 N 409 9147 50 N 588 8290	Z Z AA BB CC	Same as 8728-A, left, but 12" long Same as 8728-A, left, but 16" long. 7" tight spot steel screwdriver 1/4" and 5/6" hex nut starter Universal screwdriver aligner	333333	.52 .68 2.20 1.62
50 N 571 8868 50 N 572 8867 50 N 573 8869	DD EE FF	Tel-A-Turn screwdriver Tel-A-Turn IF aligner Tel-A-Turn Hex aligner	3 3 3	.96 .96

Moody Miniature Wrench and Screwdriver Sets

JS-6 JEWELER'S SCREWDRIVERS. Six precision drivers. Steel blades, knurled handles. Sizes, .025", .040", .055", .070", .080", .1", Case, 3/4 x4 1/2 x3 3/4". Wt.,

PA-5 SET. Not illus. Nos. 0, 1 Phillips drivers; Nos. 4, 6, 8 Allen wrenches; handle, stand and cover. 7 oz.
43 N 857......NET PER SET 1.64

B NEW SH-2 SCREW-HOLDING SCREWDRIVER SET. Includes: locking-chuck handle; 2½" and 1¾" blades; screw clip; plastic case. 5 oz.

C NEW TS-5 TINY TAP SET. 5 steel taps; knurled chuck handle. Sizes: 0-

BW-5 MAGNETIC SOCKET WRENCH KIT. Five tiny steel hex wrenches with magnetized swivel-top handle. Sizes: 3/4". 3/32", 1/4", 1/8", 5/32". Nickel-plated handle has screw-type chuck. Transparent plastic container. 5 oz.

43 N 862 NET PER SET 2.61 12 Sets or More, PER SET2.39

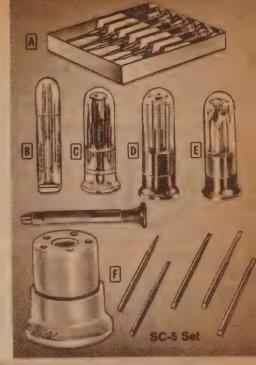
E OE-5 OPEN END WRENCH SET. Five tiny offset wrenches. Made of tough, heat-treated steel. Sizes: 364", 3/2", 764", 1/8" and 5/12". Chuck-type handle. Plastic

container. Wt., 5 oz.

43 N 804 NET PER SET 1.64 12 Sets or More, PER SET1.47

F SC-5 SCREWDRIVER SET. Contains 4 interchangeable steel blades in sizes .001", .005", .070", .080", plus 1" awl. Handle has screw-type chuck. In plastic container. Shpg. wt., 8 oz.

43 N 859. NET PER SET 99c





G-C 5090 INSPECTION MIRROR. 8" long. Mirror is 1" dia. 5 oz. 42 N 121NET 41 C

H G-C 8725 ILLUMINATED INSPECTION MIRROR. Anod. aluminum; 6" lucite rod, 1" hinged mirror. With bulb, less penlight cells. 121/4". 6 oz.

42 N 130 NET 1.97 55 J 020. Burgess "Z" Cell. 1 ½-volt cell for above Uses two 2 for above. Uses two. 3 oz.....EACH 10c

G-C 5089 PICK-UP TOOL. Press button to open claws-release to close. Flexible 14" shaft. Wt., 4 oz.

K G-C 9093 SOLDERING PROBE. For printed-circuit work. 8". 3 oz.

50 N 586 NET 96c G-C 9094 P.C. BOARD BRUSH AND SCRAPER. Stainless steel brush, hardened steel scraper, 8" long, 3 oz.

50 N 587.....NET 96c MG-C 705 TROUBLE-LIGHT. Illuminates dark corners. With bulb, 51/2-ft. cord.

For 115 v., AC-DC, 1/2 lb. 42 N 120.....NET 1.32

N G-C TYPE 5092 TUBE PULLER. Scissors-type. Rubber tips. 12 oz.

46 N 092.....NET 96c P G-C 9130 TUBE GADGET. 3 tools in one. Straightens 7 or 9-pin min. tube pins; pulls tubes. 3 oz.

42 N 016 NET 90c R G-C 5093 TUBE PULLER. For 7-pin miniature tubes. 2 oz.

NET 1.27 46 N 094 46 N 155. G-C 8106 Tube Puller. Same as 5093, for 9-pin. min. tubes......NET 1.27 S G-C 5191 PIN STRAIGHTENER. For 7-pin min, tubes. Steel die. 6 oz NET 73c 46 N 227.

service for 7 and 9-pin min. tubes 7 oz.....NET 1.47

KNOB-PULLER. For push-on knobs. 4 OZ.

46 N 077 NET 32c W G-C 7946 TWEEZERS. Precision, self-

closing crossover action. Serrated 50 N 737. NET 76c 50 N 738. Type 7947. As above, but with

narrow pointed ends 4½" long. NET 50c 50 N 740. Type 7950 Tweezer Kit. One each of above in case. 7 oz. NET 2.23

X G-C 9309 COLOR TV VIEWER. 3 optical filters allow adjusting color phase and matrix without scope. 2 oz. 45 N 663NET 1.47

Y G-C 8885 PRES-TO-OILER. Press plunger to release one drop. Also for radio-TV chemicals. Containsoil. 3 oz 46 N 065 NET 81 c

Z XCELITE 42H "SEIZER." Straight-

nose "third hand." 3 oz.

45 N 666

NET 4.27

45 N 667. Type 43H. As above, but with curved nose......NET 4.42

AA G-C 8872 C-RING TOOL. Removes, inserts "C" washers, retainers. 2 oz 45 N 661 NET 1.84



G-C 9525 TOOL CADDY

BB End tool clutter in the shop, lab, garage etc. Holds twelve tools of all sizes and shapes-hammers to tweezers. Simple to mount and use. Tools are held by spring-locked brackets. Just snap in and out—tools are always held firmly in place.
10 1/4" long. 3/4 lb. 45 N 665 NET 1.46

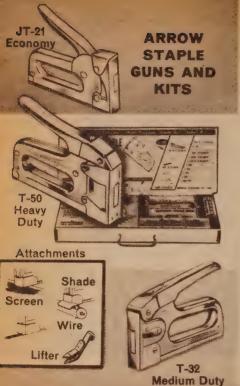
G-C 8943 TOOL HOLSTER

Perfect for servicemen, electricians, etc. Attaches to belt by two metal loops. Two narrow compartments and one full-sized compartment securely hold most-needed tools. Made of tough, flexible polyethylene plastic that holds its shape. Shpg. wt., 6 oz. 46 N 345 NET 2.43

G-C 9280 CONTROL GUN

DD Handy device for cleaning and lubricating noisy volume controls. 71/4x %". Less fluid. Shpg. wt., 8 oz.

long shanks. Wt., 2 oz..........NET 49c



Staplers, Tapewriters, Cutters, Strippers

T-25 CABLE STAPLER. For round ob-

STAPLES FOR ARROW GUNS

Stock No.	For Model	Width	Longth	Quantity	Lbs.	Net
45 N 654	JT-21	13/32"	5/16"	1000	1/4	494
45 N 655		13/32"	5/15"	1000	1/4	490
47 N 096		7/16"	1/4"	5000	1	1.87
46 N 063		7/16"	5/16°	5000	1	2.08
45 N 793	T-50	3/3"	3/4".	5000	1	2.08
45 N 789	T-50	3/8"	5/16"	5000	1	2.20
45 N 792	T-50	3%"	3/8"	5000	1	2.29
46 N 294	T-50CT	%"	9/16"	5000	1	3.20
45 N 790	T-25	3/4"	3/5"	5000	1	3.33
46 N 492	T-25	1/4"	7/16°	5000	1	3.33
45 N 791	T-25	1/4"	9/16"	5000	1	3.74
45 N 798	T-75	1/2"	9/16	1000	11/4	1.88
45 N 799	T-75	3/2"	5/4"	1000	11/4	1.88
46 N 494	T-75	1/2"	7/8"	1000		2.08

T-50MP KIT. includes T-50 gun. 5000 staples (assorted, 1/4" to 1/16"), and 4 attachments (listed below). 5 1/2 lbs.

50 N 466. List, \$17.50 NET 14.57

T-50 ATTACHMENTS

Stock No.	Type	Description	Oz.	NET
52 N 702 52 N 703	T-50 T-50	Screen Attachment Wire Attachment Window Shade Attachment Staple Lifter	3333	85¢ 85¢ 85¢



NEW DYMO TAPEWRITERS

MODEL M-22. Heavy-duty tool makes raised-letter labels on ½" plastic tape. Straight cutoff; "Delrin" plastic embossing wheel; ½" letters. Chrome-plated. 10%" long. Less tape, below. 3 lbs.

50 N 849. NET 39.95
PLASTIC TAPE. ½" vinyl pressure tape.

12-ft. rolls. For M-22 only. 5 oz.

Type 158-1 Clear. Type 158-6 Blue.

Type 158-2 Red. Type 158-8 Brown.

Type 158-4 Orange. Type 158-9 Black.
Type 158-5 Green.

50 NN 903. NET PER ROLL 11.65

MODEL M-5. Economy version of M-22, above, but uses disposable \(\frac{1}{6} \) tape magazines. 8\(\frac{1}{16} \) long. Less tape, below. 1 lb.

50 N 853.....NET 24.95
"THROW-AWAY" TAPE MAGAZINES.

For use with M-5 Tapewriter, above. Each magazine has 120" roll of 3/6" vinyl, adhesive tape. 4 oz:

Type .	Color	Туре	Color
5201-2	Red .	5201-7	Yellow
5201-4 5201-5	Orange Green	5201-8 5201-9	Brown
5201-6	Blue	5201-9	Black Gold
			The second secon

MODEL M-11. For embossing ½" metal tapes. Straight cutoff, ½ hole puncher, 10½" long. Less tape, below. 3 lbs.

METAL TAPES. For M-11 only. ½" wide; adhesive backed. Type 317-9 is black with aluminum stripe. Wt., 6 oz.

 Steck No.
 Type
 Metal
 Lgth.
 EA.

 50 N 886
 317-9
 Aluminum
 10'
 [.65

 50 N 887
 313
 Copper
 12'
 1.75

 50 N 888
 358
 Aluminum
 12'
 1.65

VLCHEK 650 TUBING CUTTER. Alloy steel blade cuts 1/8" to 11/16" copper, brass, aluminum tubing. Retractable reamer. Wt., 1/8 lb.

0 N 890. NET 1.35

VLCHEK 651 COMBINATION TUBING / PIPE CUTTER. Cuts tubing to 21/6", std. pipe to 1". Alloy steel body, handle; chrome alloy blade; reamer, Wt., 2 lbs. 50 N 889. NET 5.15

VLCHEK 652 FLARING TOOL. For all tubing, 3/6" through 5/". Hardened and polished; tapered cone rides on ball bearing; black enamel yoke. 3.1bs.

50 N 891.....NET 3.34

G-C WIRE STRIPPERS

TYPE 766K KIT. Contains 766 Stripper, 7 blades, blade guide. For #8 to #30 wires. Shpg. wt., 21/4 lbs.

46 N 229. NET 11.73

DELUXE MODEL 766. Will not pull or crush wire. Hardened steel blades. For #12 to #20 wires. Wt., 1 ½ lbs.

46 N 225 A 103 A 1041, 22. A 2411 NET 5.81

MODEL 802. For #10 to #22 wires. Automatic stop return, wire cutter, 8 oz.

MODEL 760 STRIP-ER-CLIP. 8-stop gauge adjusts for #12 to #26 wires. Can't nick or cut wire. Insulated grip. 8 oz.

50 N 347.....NET 1.35

UTICA "STRIPWRIGHT" WIRE STRIPPER

K. MILLER WIRE STRIPPERS WITH CUTTERS

MODEL 101-S. Strips insulation from wire up to #8, solid or stranded. Spring lock holds blades closed when not in use. 5" long. Shpg. wt., 4 oz.

46 N 246. NET 1.17

MODEL 100. As above, but without spring action. Shpg. wt., 4 oz.

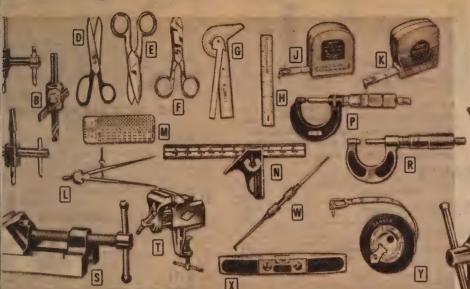
50 N 338.....NET 87c

WALSCO WIRE STRIPPER

TYPE 592-00 "TWISTO." For rapid removal of insulation from wire sizes 12-22. Built-in stop for production stripping. Spring steel blades. 4½" long. 8 oz. 46 N 440. NET 2.94

592-03 REPLACEMENT BLADES, 2 oz.

Measuring Tools, Scissors, Cutters, Vises



NERAL HARDWARE CIRCLE CUT-RS. Round shank types for drill press; uare shank for hand brace. Removable pt drill and cutter blade. Av. wt. 8 oz.

e i	c No.	Fig.	Shank	HoleSize	NET
N	600	A	Round 1/4'	7/8" to 4"	1.69
N	602	C	Square	1" to 6"	2.10
	603	A	Round 1/6		2.10
	350	A	Round 1/2		2.10
N	351	Ai	Round 1/2	" 13/4" to 8"	4.64

N 610, Extra Blades, 4 oz. NET EA. 446 CLARK TYPE 100 CIRCLE CUTTER. Cuts holes $\frac{5}{8}$ " to 1 $\frac{1}{2}$ " in dia., in metals to $\frac{1}{8}$ " thick. $\frac{1}{4}$ " pilot drill with $\frac{1}{4}$ " and shank, 5 oz.

N 620. NET 3.67

AUSS INDUSTRIAL SCISSORS. pe 925 (Fig. D) are electrician's scissors. pe 925C (Fig. E) same, but has wire ipping notches on back of blade. Type 17 (Fig. F) is industrial shears; Type 18 is identical but larger.

Stock No.	Mfr's Type	Length	Cut Length	Wt. Oz.	NET EACH
N 896 N 842	925 925C	- 5"	13/4"	3	1.84
N 305 N 304	4217 4218	7** 8*	31/4"	5	3.31

MULTI-PURPOSE RULE. 4" scale in 32nds and 64ths, plus millimeters; uare; protractor; center finder; drillint gauge; tap-drill table. Stainless eel. With case, 4 oz.

N 153.....NET 1.34

6" RULE AND WIRE GAUGE. Graduated in 32nds and 64ths. Has B&S re gauge, decimal equiv. 2 oz

N 061.....NET 44c

" STAINLESS STEEL BENCH RULE. ot illus.) Has two sides graduated in ns, 16ths, 32nds, and 64ths. 1/8" wide. ipg. wt., 2 oz.

LUFKIN WHITE CLAD "MEZURALL" STEEL TAPE RULES. For construcon and general home use. Easy-to-read black markings against a durable, hite background on tempered steel ade. Self-adjusting end hook for accute butt end and hook-over measureents. Marked on both edges, one side. rst 12 inches of upper edge graduated 32nds; balance to 16ths.

Type | Feet | Oz. | List | NET ock No. \$1.19 1.39

K LUFKIN "MEZURAMATIC" TAPE RULES. Ball-bearing rewind, heavy-duty end hooks, non-slip cases. Foot and inch graduations to 16ths of an inch on both edges, first 12" graduated to 32nds on one edge. Have black markings on a white background, except *which are chrome-plated.

Stoc	k No.	Type	Feet	Oz.	List	NET
	¥ 179	W728	8	7	\$1.69	1.13
	1 180	W7210	10	71/2	1.98	1.33
	181	W7212	12	8	2.29	1.53
	V 182	C728*	10	714	2.70	1.80
20 1	1 103	. C1210.	10	, 72	2.10	1.00

6" STEEL DIVIDERS. Bow-spring and tapered fulcrum for accuracy. Replaceable points. Adjusting nut. Length, 6 inches. Shpg. wt., 6 oz.

46 N 089..... NET 2.74

M DRILL AND STEEL-WIRE GAUGE. Gauges and gives decimal equivalents -drill number and wire sizes 1 to 60. Lists tap and drill sizes, 1/4-28 to 2-56. Shpg. wt., 5 oz.

46 N 060......NET 1.34

N 12" COMBINATION RULE. Etched steel. Graduated in 8ths, 16ths, and 32nds. Head locks on 1" blade. Scriber in head. 13/ lbs.

50 N 308..... NET 84c

P CENTRAL 1" PRECISION MICROM-ETER. High-quality, moderately priced micrometer. Easy to read, has positive lock. Meets gov't spec. GGG-C-105. Polished spindle and anvil. 8 oz.

50 N 060. List, \$14.00 NET 10.95

R HANSON ECONOMY 1" MICROM-ETER, Precision micrometer has .0005" accuracy. Employs screw-type anvil to permit simplified zero adjustment. Springfriction stop for improved accuracy. Frame, thimble and ratchet are fully chromed to inhibit rust. Factory-adjusted. 7 07

MILLERS FALLS NO. 217 VISE. 23/8" wide jaws open to 31/8". Removable swivel jaw. 5 lbs.

46 N 064..... NET 8.90

Clamps to any bench up to 2" thick. Jaws open to 13/4". 23/4 lbs. 46 N 015......NET 1.50

W 9" SCRIBER. Two-point machinist's scriber, knurled finger-hold. 3 oz. 50 N 309. NET 44 c

EXACT MODEL A-9 ALUMINUM
"HANDYLEVEL". For the professional craftsmen and home hobbyists. 3 indicators for vertical, horizontal, and 45° use. Grooved base. 9x13/16x3/4".. 8 oz. 50 N 440..... NET 1.50

WILTON

Y LUFKIN WHITE-CLAD TAPE. Accurate 50-ft, steel tape. Has highly legible jet-black figures and graduations on snowwhite background. Hard, triple-baked finish. Hook ring for "walk-away" measuring Folding flush handle. Vinyl-covered steel case. 1 lb.

.. NET 3.67 50 N 184. List, \$5.49..

WILTON VISES

MODEL 665A VISE. Three vises in one woodworking, metalworking and pipe vise. Removable fiberboard jaw faces clamp wood without marring. 5" wide steel laws provide powerful grip for metal jobs. Pipe jaws hold pipes of $\frac{1}{8}$ " to $\frac{2}{2}$ " dia. Jaws are $\frac{3}{4}$ " deep. Max. jaw opening, $\frac{5}{4}$ ". Swivel base. 35 lbs. 46 NU 953. List \$24.30. NET 16.20

MODEL 1125. Removable steel jaws open to a maximum of 21/4"; jaw width, 21/4". Swivel base, 51/4 lbs.

46 N 896. List, \$5.30.....NET 3.67

BB MODEL C531/2. Economy 31/2" jaw vise. Features removable steel insert jaws, built-in pipe jaws, precision-ma-chined screw. Swivel base allows unit to be swung instantly to any desired position. Base locks securely in place. Large anvil with forming horn, 12 lbs.

50 N 487. List, \$9.90......NET 5.30

MODEL C54. As above, 4" jaw. 15 lbs.

MODEL C55. Same as C53 1/2 above, but

MODEL 364 VISE AND POSITION-ER. Ruggedly-built utility vise mounted on famous PowRarm positioner. Excellent combination for work on small electronic assemblies or parts. Single-handed release of positioner level-bar permits rotating or tilting work to any desired angle. Positioner is cadmium-plated steel. Capacity, 15 lbs. Vise jaws are smooth steel. 21/4" wide; open to 21/4". Wt., 5 lbs. 50 N 149..... NET 13.93



G-C Radio-TV Chemicals



An extensive listing of chemicals for simplifying servicing of radios, TV sets, record changers, tape recorders, etc. Available in sizes to meet the requirements of any service shop.

LUBRICANTS

Stock No.	Mfr's Type	Size	Shpg. Wt.	Description	NET
43 N 046 47 N 041	65-16 9402	16 oz. 3/4 oz.	1 1/4 lbs. 2 oz.	Control cleaner and lubricant Radio-TV oil; vial dispenser	1.91
\$10.000 masses on manager of the page of t		C	EMENT	TS AND THINNERS	
43 N 456 43 N 166 43 N 451 43 N 163 43 N 296 47 N 043 43 N 466 43 N 210 43 N 211	30-2 30-8 31-2 31-8 32-2 32-2A 35-4 43-2 43-8	2 oz. 8 oz. 2 oz. 8 oz. 2 oz. 2 oz. 2 oz. 2 oz. 8 oz.	6 oz. 1 ¼ lbs. 5 oz. 1 ¼ lbs. 6 oz. 6 oz. ½ lb. 6 oz. 1 ¼ lbs.	Radio and Speaker Service Cement Radio and Speaker Service Cement Radio Service Solvent Radio Service Solvent Bakelite Cement All-Purpose Plastic Cement Rubber-to-Metal and Phono Drive Cement "Pli-O-Bond" Plastic Cement "Pli-O-Bond" Plastic Cement	.47 1.23 .44 .79 .68 .47 .78 .52
Address of the Assessment of t				CLEANERS of sevent of the country of	
43 N 127 43 N 128 45 N 203 43 N 463	19-1 19-2 53-1 127-4	1 oz. 2 oz. 1 oz.	4 oz. 6 oz. 4 oz.	"De-Ox-Id" Contact Cleaner "De-Ox-Id" Contact Cleaner Recording Head Cleaner	.65 .94 .56
43 N 463 43 N 160 47 N 044 43 N 453	210-2 211-4 8460	4 oz. 2 oz. 4 oz. 2 oz.	1/2 lb. 6 oz. 1/2 lb. 1/2 lb.	Contact and Crystal Cleaner Electronics Contact Cleaner Carbon Tetra-Chloride "De-Ox-Id" Kit—Contact Cleaner	.65 .53 .53

MISCELLANEOUS CHEMICALS

Stock No.	Mfr's Type	Size	Shpg. Wt.	Description	NET
43 N 472 50 N 732 43 N 145	37-2 37-16 47-2	2 oz. 16 oz. 2 oz.	6 oz. 2 1/4 lbs. 6 oz.	"Q-Dope" (Coil Dope) "Q-Dope" (Coil Dope) TV High Voltage Corona Dope	2.14
43 N 474 43 N 455 47 N 046	49-2 50-2 56-2	2 oz. 2 oz. 2 oz.	6 oz. 6 oz. 6 oz.	"TV Tube Koat" (recoats picture tubes) "Red-X" TV High Voltage Corona Dope Insulating and Dipping Varnish	.71
43 N 460 43 N 461 50 N 720	90-2 90-8 161-2	2 oz. 8 oz. 2 oz.	6 oz. 1 1/4 lbs. 6 oz.	Red Glyptal Insulating Varnish Red Glyptal Insulating Varnish Mahogany Touch Up Stain	1.62 1.47
50 N 721 50 N 593 50 N 589	161-2 163-16 176-2	2 oz. 16 oz. 2 oz.	6 oz. 2 1/4 lbs. 6 oz.	Walnut Touch Up Stain Rubbing Oil Liquid Tape	1.40
47 N 048 43 N 009	1215 8101	2 oz. 1 oz.	6 oz. 2 oz.	Liquid Non-Slip (drive cables, belts) Transistor Z5 Silicone Compound	2.06



DIETZGEN SLIDE RULES

MODEL 1734L DECIMAL TRIG-TYPE LOG LOG. Precision 10" rule. Teflon grooves permit smooth, effortless settings. Scales on one side: LL02, LL03, DF, CF, CIF, L, CI, C, D, LL3, LL2. Other side: LL01, K, A, B, T<45, T>45, ST, S, D, DI, LL1, S, ST, T scales divided to read degrees, decimals of degrees. Leather case, instructions. Wt., 11/4 lb.

24 RC 638. Model 1734. As above, but with simulated leather case. 1 1/4 lbs. 6-Up, EACH 18.00......1-5, EACH 19.13

ACU-MATH

MODEL 1211 5" POCKET SLIDE RULE.
Precision, easily readable pocket rule.
White vinyl plastic sheet face; lucite cursor; inlaid calibrations. Scales on one side:
K, A, B, Cl, C, D, L; S and T on other.
Leather sheath and instructions. Shpg.
wt., 5 oz.

24 RC 636. List, \$3.95. NET 2.99

MODEL 17765" POCKET SLIDE RULE.
Scales: DF, CF, CIF, CI, C, D, L, K, A,
B, T, ST, S, DI. Leather case, pocket clip
instructions. Wt., 5 oz.

SLIDE RULES



G-C MISCELLANEOUS PAINT KITS

H TYPE 66-5 "DIAL-LITE" COLORIN KIT. For dials, bulbs, etc. Instant ding; bright, long lasting. Kit includes: regreen, blue, amber, solvent. Bulbs may dipped or brushed. 4 oz.

43 N 110 NET 1.

ing enamels—all 10 standard EIA Co colors. With brushes. 1 ½ lbs.

43 N 112 NET 1.4
"LABELON" LABELING TAPE



ACETATE "WRITE-ON-IT" TAP Border and writing color: *black, fre \$blue. 400° roll. 5 oz.

Stock No.	Mfr's Type	Width	1-11, EACH	12-23, EACH	24 or More, EA
52 N 772 52 N 751 52 N 753 52 N 754 52 N 755	315* 335† 415* 425§ 435†	5/16" 5/16" 1/2" 1/2" 1/2"	1.52 1.52 1.71 1.71	1.39 1.39 1.57 1.57	.31 .31 .48 .48
52 N 757 52 N 773 52 N 774 52 N 761	515* 525\$ 535† 615*	%" %" %" %"	1.91	1.75 1.75 1.75 1.93	1.65 1.65 1.82

"MYLAR" MC LABELS. Resist mo ture, heat, acids, etc. 2 oz. per bo

Size	No. Per	Stock No.						
2116	Box	Bla	ck		Re	đ	Bi	ue
½ x3" %x1½" ¾ x2" 1x2½"	56 100 66 40	50 N	364	50 50	N	368	50 N 50 N 50 N 50 N	3
1-11 B	oxes, P					12 2 2 3		1.2

DEVCON ADHESIVES



LIQUID ALUMINUM. F fast repairs, just squee from tube. Bonds, sea fills, mends all materia Hardens to metal; fix pipe, furniture, etc. 8 of List, 98c. 50 N 579 NET 75

"STEEL" ADHESIVE. Paste form. Bond metals, plastics, wood, etc. 8 oz. 50 N 580. List, 98c.............NET 75



Selected Servicing Chemicals



A RAPID "ELECTROPLATER." 1 oz. cleaner, 1 oz. polish, plating com-bound, 3/8" brush wires and clips, polishng stick. Requires 2 # 6 1 1/2 v. cells. 1 lb.

Stock No.	Type	Compound	NET
43 N 080	200	Nickel	"mar s. e
43 N 081	202	Cadmium	1.67
43 N 082	204	Copper	1.07
43 N 083	205	Brass	14 11 15 M
43 N 084	206	Silver	2.66
43 N 085	207	24 K Gold	4.61

B "NO NOISE" SOLUTION. Cleans and lubricates controls, switches, etc. In 6 z. spray can. 2 oz. bottle with dropper. Wts., can, 10 oz.; bottle, 6 oz.

13 N 142. 6 oz. NET 2.20 13 N 143. 2 oz......NET 98c

C QUIETROLE CLEANER AND LUBRICANT. Eliminates noises from conrols, etc. Non-flammable. Wts., 2-oz. pottle, 7 oz.; 4-oz. bottle, 14 oz.

1.35

QUIETROLE SPRAY PACK. As above, n handy spray can. 10 oz. 50 N 719

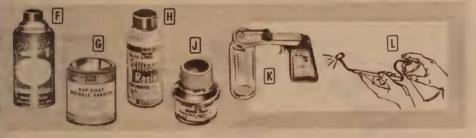
D CHEMTRONICS "NO-ARC." High voltage insulator in a spray can. 20,000 v. breakdown, 8 fluid oz. 1 lb.

E INSL-X TOOL DIP. A red liquid plastic that hardens into insulating coating when applied to handles of pliers. wrenches and other tools used in electrical work. Corrosive resistant. Dries in 24 hours. Remove cap from container and dip handle of tool into liquid; may be dipped repeatedly.

Stock No.	Contents	Shpg. Wt.	EACH	24-Up, EACH
42 N 400 42 N 401		10 oz. 21/4 lbs.	1.25	1.12 3.06

INSL-X E-26 INSULATING SPRAY. (Not illus.) Clear-plastic electrical insulation in spray-can. Use for insulating electronic components, terminals, circuit wiring and tools. Tough and durable, Has dielectric strength of 800 to 1200 volts per mil. In 12-oz. can. 1 1/2 lbs.

42 N 402. 1 to 23..... NET EACH 1.19



G-C MISCELLANEOUS PAINTS AND CHEMICALS

F "SPRA-KOAT" WRINKLE VARNISH.
Can be air dried or baked—gives a professional-looking wrinkle finish. Makes composition board and bakelite panels look like wrinkle-finish steel panels. 16 fl.

02. 111 0011	CHICH	opius c	121111 1 /4 11	00.
Stock No.	Type	Color	1-5. EA.	6-Up, EA.
43 N 028 43 N 029	00-12	Black	2 20	100
43 N 029	0U-13	Gray	Z.20	1.70

TELEPHONE BLACK AND GRAY. (Not illus.) A satin finish enamel. Black for control panels. Gray gives professional appearance to test equipment, etc. For wood or metal. 16 fl. oz. 11/4 lbs.

Stock No.				
43 N 033 43 N 034	62-12	Black	225	202
43 N 034	02-13	Gray	2.25	2.02

HAMMER FINISH. (Not illus.) For applying professional hammer finish to panels and instrument cases. Moisture-proof. Airdries quickly. 16 fl. oz. 11/4 lbs.

Stock No.	Туре	Color	1-5, EA.	6-Up, EA.
43 N 035 43 N 036 43 N 037	84-12	Blue	2.25	2.02

"ZERO-MIST" SPRAY. (Not illus.) Locates intermittents caused by temperature changes. Spray suspected components one at a time—cools immediately. Pinpoints faulty capacitors. Cold solder joints, etc. 16 fl. oz. 11/2 lbs. 50 N 099 NET 2.37

"SPRA-KLEEN" CONTACT CLEANER. (Not illus.) Efficient cleaner-simply spray and work mechanism. 6 fl. oz. 10 oz.

G NO. 60 "RUF-KOAT" VARNISH. Airdrying wrinkle varnish for amplifiers, test equipment, chassis, etc. Gives a professional-looking appearance. Can be airdried or baked.

	Brown		Size	Lbs.	NET
50 N 722	50 N 723	50 N 724	2 fl. oz.	1/4	.65
43 N 483	43 N 484	43 N 485	16 oz.	11/4	2.20

H SILICONE RESIN SPRAY. Forms protective coating which insulates, waterproofs, and provides barrier against dust. 6 oz. spray can. Wt., 10 oz. 43 N 027 NET 2.37

NO. 21 SILVER PRINTED CIRCUIT PAINT. Use to repair or design printed circuits. 1 Troy oz. Shpg. wt., 4 oz. 43 N 159 NET 4.56

43 N 079. No. 20 Copper Paint. As above, but copper. 2 fl. oz. Wt., 4 oz. 30. 1.40

K GUN TYPE SPRAY CAN HANDLE. Attaches to any spray can—converts it to a spray gun. Wt., 3 oz. 45 N 201 NET 87c

SPRAY CAN EXTENSION. For directing spray. Fits any spray can. 9" long. Wt., 2 oz. 45 N 202.....NET 66c

JET-PAK SPRAYON OUTFIT

Sprays Paint, Waxes, Etc.

Sprays any liquid. No cords, no hoses. Power gas cartridge. Sprays up to 32 oz. of paints, etc. Includes head assembly, 4-oz. glass jar, 15-oz. power unit; 1½ lbs.

47 N 086 NET 1.98 47 N 087, 15-oz. Refill. 1 lb..... 1.20 47 N 088. Extra 4-oz. Jar. . NET 13c



KRYLON PLASTIC and ENAMEL SPRAYS

CLEAR PLASTIC SPRAY. Can sprays a crystal-clear acrylic that dries in minutes. Forms hard, waterproof coating of high dielectric strength. Eliminates corona and

ENAMEL SPRAYS. Attractive, non-fading. Wide variety of colors. Dry in 3 minutes. Non-clogging spray valve. 16 oz. can. Shpg. wt., 11/4 lbs.

No.	Color	No.	Color
43N134	Bright Silver	43N109	Bright Gold
43N064	Bright Copper	43N 107	Hunter Green
43N059	Flat White	45N208	Surf Green
43N137	Glossy White	43N054	Chrome Yellow
	Antique Ivory	43N384	Champion Blue
			Regal Blue
	Glossy Black	43N056	Cherry Red
43N053	Light Gray	43N044	O. D. Khaki
43N108	Machine Gray	43N043	Int'l Urange
45N207	Dove Gray	43N383	Brass

1-11,...EACH 1.17 12-Up... EACH 1.07

"RUST MAGIC PRIMER" Phenolic resin, anti-rust primer. Pierces existing rust and prevents further corrosion. Dries in 20 minutes. Cover with nearly any finish. 16-oz. aerosol spray-on can. 1½ lbs. 43 N 385. 1-11 NET EACH 1.17

12 or More..... EACH. 1.07

ZINC-CHROMATE PRIMERS. Metal primer dries rapidly to form a strong bond with metal. Resists peeling or cracking. Retards rust. Accepts finish coats readily. Ideal for priming metal gutters, masts, etc. 16-oz. spray can. 1½ lbs.

45 N 210. Yellow Primer.

NET 127

45 N 211. Green Primer . . . EACH 1.27 12 or More. EACH 1.17



WALSCO PROTECTO-TUBE

TYPE 18-K, Plastic high-voltage insulating tubing. Expanding solution swells tubing; shrinks after application. 12' of tubing, expanding solution. 12 oz.

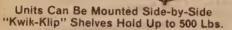
43 N 132NET 1.17

Workshop Storage Equipment, Workbench

POPULAR EDSAL WORKSHOP EQUIPMENT







DELUXE HEAVY-DUTY STEEL STORAGE RACKS

Provide compact storage facilities. Units are complete and independent. Easy to assemble—bolt tops and bottoms; shelves held by unique "Kwik-Klip" fasteners. With 5 shelves; extra shelves, below. Posts punched at intervals for shelf adjustment.

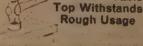
The state of the s	
88 NZ 087. With 12" Deep Shelves. 47 lbs NE	т 8.95
88 NZ 088. With 18" Deep Shelves, 60 lbs NE	T 11.45
88 N X 985. 12" Extra Shelf. 6 (bs.)	ET 1.39
88 NX 086. 18" Extra Shelf. 8 lbs	ET 1.89
ECONOMICAL STEEL STORAGE PACKS Low cost of	

rack units. Each has 5 shelves; 4-bolt construction. Shelves hold

mb 10 = 10 100:		
50 NZ 801. Ty	rpe 7230. Size, 73x30x12". 23 lbs	5
50 NZ 802. Ty	/pe 7218. Size, 73x36x18", 29 lbs. 🕬 🚁 NFT 8.4	5
50 NU 803. Ex	tra 12x30" Shelf for 7230 Unit. 3 lbs NFT 1.1	0
50 NU 804. Ex	tra 18x36" Shelf for 7218 Unit. 5 lbs NET 1.6	0





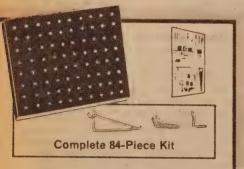


- 8 Square-Foot Work Area
- Large, Reinforced Pegboard Tool Rack
- Holds 2 Storage Drawers

ALL-STEEL FRAME WORK BENCH

All-steel frame hobby and work bench for the home workshop or industrial shop. Durably constructed to provide years of reliable service. Features include: 48x15" reinforced pegboard tool rackplenty of storage space for a complete tool assortment; 48x24". table top of mar resistant 11/8" thick, high-impact compressed board that withstands even the roughest usage; holds two allsteel parts-storage drawers (below). Gray oven-baked enameled steel parts are rust resistant. Less drawers, below. 341/2" high. Shpg. wt., 83 lbs. 50 NZ 523.

50 NX 524. STEEL STORAGE DRAWER. For above. Size, 3x12x



DUR-O-PEG PEGBOARD KIT

NEW MODEL 1102. Provides convenient storage space for tools and parts. Four 18x24", perforated 1/2" thick hardboard panels provide 12 square ft. of storage area that can be adapted to changing needs in seconds. Kit includes: 4 panels; 6 jar holders; 4 storage jars; 3—5" double hooks; 2 small-loop hooks; 20 small straight hooks; 20 medium loop hooks; 2-8° shelf brackets; 3 large loop hooks; 3 medium straight hooks; 16 mounting screws with spacers; 1 multiple tool rack, 12 lbs.

50 NX 900. List, \$7.98,... NET 4.55

HARDWARE KIT. Contains 64 hooks and fixtures listed above, less perforated panels. Shpg. wt., 4 lbs. 50 NX 901. List, \$3.95..... NET 2.25







Dixie Interlocking Aluminum



Rack

EQUIPTO STORAGE CABINETS

NO. 11 18-DRAWER CABINET, Ideal for storing small parts in easily accessible order. Each drawer is equipped with two removable cross-dividers-adjustable to any 1" interval of drawer length. Jamproof drawers have large handles. Instant-visibility label holders on drawers and dividers. Heavy-duty all-steel frame. Olive-green finish. Drawer size, 31/8x51/8x 11". Overall size, 133/x34x12". May be stacked. 62 lbs.

86 NZ 011.....NET 28.95

86 NZ 099. No. 22-18-Drawer Cabinet.

86 NU 012. No. 8-8-Drawer Cabinet, As above, but eight 31/x53/x11"

86 N 869, 8505 Drawer, As in cabinets No. 11 and 8. Less dividers, below. Shpg. wt,.. 21/2 lbs.....NET 90c

86 N 871. 8711 Lengthwise Dividers, For above except No. 22 cabinet. Shpg. wt., 9 oz. 5 per pkg. PER PACKAGE 1.00

86 N 872. 8720 Cross Dividers. For all above cabinets. Shpg. wt., 6 oz. 5 per package.....PER PACKAGE 75c

DIXIE INTERLOCKING DRAWERS

Economical aluminum storage trays provide excellent storage for a wide variety of radio and TV small parts and hardware. Lock together on tops, bottoms, and sides. Drawer dividers (below) may be added to make individual storage compartments. Size, 2 1/8 x 2 1/4 x 5". 10 oz.

86 N 023. 1-9, 32. A. EACH 46c 10 or More, A. A. M. EACH 38c

DRAWER DIVIDERS. For Dixie drawers, above. 4 oz. 3 per package:

VIS-A-PART STORAGE RACKS

Ideal low-cost storage for screws; nails, resistors, capacitors, any other small parts. Contents always visible, yet remain clean, dry. Jars slide out easily, already open. Masonite board has 4 mtg. holes.

Stock No.	Type	Size .	Lbs.	NET
86 NX 246	12-Jar		41/2	1.91
86 NX 245	24-Jar	18x18"	9	3.53

REPLACEMENT JARS. 2 oz.

46 N 207. NET EACH 8c HOLDER CUPS. Same as jar holders in

Vis-A-Part boards above. 2 oz. Pkg. of 2. 46 N 204..... NET PER PACKAGE 20c

Parts Cabinets and Tool Storage Chests

AKRO-MILLS SMALL-PARTS CABINETS









"Handy-Bin" **Utility Cabinets**

HB-SERIES CABINETS

pact "Handy-Bin" plastic cabinets. -thru, spillproof styrene plastic vers, 11/4x23/4x53/4". Each drawer has divider and index labels. Styled in e colored frames. All are 93/2" wide,

k No. T	pe Draw	/ers Ht.	Lbs.	NET
262 9		5"		1.99
X 225 15 X 234 21			" 4	2.99 3.99

J-SERIES CABINETS

Space-conserving deluxe steel cabinets. Stand, stack or hang on wall. Clear plastic drawers, 17/16x23/4x5 3/8", are separated into 3 sections by removable dividers. With index labels, Gray hammertone finish. All are 6" deep.

Stock No.	Type	Drawers	H&W	Lbs.	NET
86 NX 048			151/4×121/2"		11.98
50 NX 902 88 NZ 080			22½ x12½" 30½ x25½"		18.98 52.98

HBA "HANDY-BIN" CABINETS

Rugged welded steel frame cabinets, Provide convenient and economical storage for small parts and supplies. Clear styrene plastic drawers are 23/4x53/4x11/4"; have adjustable divider that locks tightly in place; safety tab that prevents accidental spilling. Stack neatly and securely, may be hung on the wall. Baked-on silver-gray hammertone finish won't chip or rub off. With labels and one divider per drawer. All are 6" deep.

Stock	No.	Туре	Drawers	HxW	Lbs.	NET
		12HBA 18HBA		6½x10" 9x10"		2.99
		24HBA		9x13"		5.33

M4B-SERIES METAL SMALL-PARTS CABINETS

ures large 2x11x4" plastic drawers; b-in dividers; index labels. Gray fin-cabinets; 17 1/2" wide, 11" deep.

Stock No.	Type	Drawers	Ht.	Lbs.	NET
86 NX 598 86 NX 599 86 NX 623	M4B24	24	11½" 16¾" 27%"	25	20.98 31.98 52.98

UNION STEEL CHESTS 4313 5413 5414 "WATERTITE" CHEST

6119 "SUPER STEEL" CHEST

rdy steel chest with 3-compartment revable tray. Has 2 heavy-duty drawbolts s center padlock eye. Continuous hinge ded to cover and case. Carefully baled with steel handle for easy carrying. e enamel interior; silver-gray hammere exterior. 7x19x7". 8 lbs.

NX 017.....NET 5.45

NX 018. Type 6116. Above, with 2 comtments. 7x16x7". 7 lbs...... NET 5.10

110 4-DRAWER STEEL CHEST

ged all-steel chest. Four easy-slide wers. 2x9x11 1/2", have label holders I removable dividers to make up to 12

npartments per drawer. Silver finish.

Maximum-capacity utility chest at low cost. Has 5 compartments in upper tray; plain lower tray, spill-proof drawbolt, seamless construction, returned edges, embossed 12" rule, etc. Green baked enamel. 61/2x131/2x61/4". 2 lbs.

4313 ALL-PURPOSE CHEST

A low-cost steel chest with a single-cantilever 3-compartment tray. Has full-drawn leakproof seamless body and snap catch with provision for padlock. Hardware fittings are machine riveted. Has 12" rule embossed in cover. Blue enamel finish.

41/2x131/2x61/2". Wt., 21/2 lbs.
91 NX 234. NET 1.40
91 NX 233. Type 4013. As above, but without tray, Wt., 2 lbs. NET 1.15

5413 2-TRAY UTILITY CHEST

5419 DELUXE CHEST

A ruggedly constructed tool chest featur-

ing 2 cantilever-mounted trays and

Union's famous watertight design. Extra-

large tray capacity. Push-button self-latching drawbolt. Upper tray has 7

compartments; lower tray contains one full length, one $\frac{2}{3}$ length and 2 smaller compartments. Full grip steel handle. Green enamel finish. Size, $7x14\frac{1}{2}x7\frac{1}{3}$ ".

(Not illus.) Similar to Type 5414 above, but larger in size. 19" long with 9 sections in upper tray, 6 sections in lower tray. Virtually spillproof. Size, 7x19x71/4". Shpg. wt., 7 lbs.

86 NX 154.....NET 4.25

91 NX 232. NET 2.60



10x11 ½", 10 ½ lbs.

NX 019.

Rugged all-plastic hinged-top storage boxes with from 1 to 24 compartments. Ideal for storing small parts, resistors, capacitors,

hardware, etc. Boxes are light, id, strong, scratch-resistant and easy clean. Type P250 has removable cover. dicates total number of compartments.

VLCHEK CLEAR PLASTIC STORAGE BOXES

Stock No.	Mfr's Type	*Comp	Size of Compartments	Overall Size, H.W.D.	-	EACH
44 N 362 44 N 363 44 N 356 44 N 357	P212	1 4 5 6	5½x3½" 15/6x2½" 4—15/2x2½"; 1—15/2x3¼" 1½x3½6"	6 1/4x4x1 1/16" 4 5/8x3x1 1/8" 7x3 3/4x1 1/4" 8 1/4x4 1/2x1 3/8"	1/3/4	.38 .22 .37 .51
44 N 355 44 N 358 44 N 354 44 N 366	P210 P201 P612	9 12 12 18	8-136x15/6"; 1-11/6x31/4" 6-11/4x11/4"; 4-11/4x2"; 2-11/4x315/6" 6-15/6x115/6"; 6-15/6x4" 11/4x11/4"	7x3 ³ / ₄ x1 ¹ / ₄ " 8 ¹ / ₄ x4 ¹ / ₂ x1 ³ / ₈ " 11x6 ³ / ₄ x1 ³ / ₄ " 8 ¹ / ₄ x4 ¹ / ₂ x1 ³ / ₈ "	11/4	.37 .51 1.22 .51
44 N 367 50 N 614 50 N 615	P618 P818	18 18 24	15/6×115/6" 12—2×2"; 6—2×43/6"	11x6 ³ / ₄ x1 ³ / ₄ " 13 ¹ / ₈ x9x2 ⁵ / ₆ " 13 ¹ / ₈ x9x2 ⁵ / ₆ "	11/4	1.28

It's Easy to Learn the Code With These Low-Cost Aids!

ALLIED RADIO
INTERNATIONAL MORSE

CODE



RIDER "Sight 'N' Sound" Code Course

Based on latest teaching concepts—you advance in steps of one-wpm per day!

REC-08 NOVICE COURSE. (0-8 wpm). 3 LP records, 47 cards, and book. Wt., 2 lbs. 89 S 558. NET 9.50

REC-920 ADVANCED COURSE. (9-20 wpm). 3—10°
LP records, cards, book. Wt., 2 lbs. NET 8.95

REC-020 COMPLETE COURSE. (0-20 wpm). 6—10°
LP records, cards, book. Wt., 6 lbs. NET 15.95

ALLIED CODE COURSES

ALLIED'S 5-RECORD CODE COURSE. "Eye-Ear" method of learning code at home. Eye follows the letters as the ear hears the sounds. Five 10', 78 rpm records recorded on each side. From 2 to 15 wpm in 10 lessons. Comes complete with album and Allied instruction book. Shpg. wt., 6 lbs.

AMECO CODE COURSES

JUNIOR COURSE: five 45 or 78-rpm records or 33 ½ LP; from start to 7½ wpm. ADVANCED: si or 78-rpm records or one 33 ½ LP; 8 ½ to 18 w SENIOR: eleven 45 or 78-rpm records or two LP's; from start to 18 wpm. All courses incl 28-page manual with FCC-type exams.

Stock No.	Course	Speed	Wt.	NE	
89 \$ 590 89 \$ 591 89 \$ 592	Junior Junior Junior	78 rpm 45 rpm 33½ rpm	4 lbs. 1½ lbs. 1 ib.	6. 5.	
89 5 593 89 5 594 89 5 596	Advanced Advanced Advanced	78 rpm 45 rpm 33½ rpm	4 (bs. 1½ ibs. 1 fb.	5.	
89 S 598 89 S 616 89 S 617	Senior Senior Senior	78 rpm 45 rpm 33½ rpm	7 lbs. 4 lbs. 2 lbs.	11.	

NEW





EICO CODE OSCILLATOR

New Model 706 portable transistor unit has speaker, adjustable pitch, phone jack,

pitch, phone jack, choice of tone/flashing light/both. 6½x 3½x2½. With battery. 2 lbs. 89 S 621. Factory Wired... NET 12.95

89 S 627, Kit Form NET 8.95

55 J 905. BATTERY. 1 1/2 v. 8 oz...... NET 13c









CODE PRACTICE OSCILLATORS AND KEYING MONITORS

55 J 340. PENLIGHT CELL. 2 oz. ... EACH 10c

GONSET MODEL 3022 "MONITONE" KEYING MONITOR AND CODE PRACTICE OSCILLATOR. Learn the code with this inexpensive unit—then use it to monitor your sending after you get your Ham licensel Monitor-oscillator unit has built-in speaker, provision for headphones, separate tone and volume controls. Uses RF pickup link placed near transmitter's final tank coil to monitor transmitter keying. Case size is just 6x7x6". For 110-120 volts, AC or DC. Wt., 4 lbs.

39 S 718. 35 Monthly

NET 32.80

BUD MODEL CPO-128B "CODEMASTE May be used as CW monitor. Has 4' PM speal volume and pitch controls. External speaker may plugged into built-in headphone jack. Several he phones and keys may be paralleled for group crinstruction. Size, 6½x5½x3½". For 110-120 voits, or DC. Shpg. wt., 5 ibs.

NET 18.

CODE PRACTICE SETS AND ACCESSORIES

DOW-KEY "KEY-MUNICATOR" CODE PRACTICE SET. Practice set of unusual quality, efficiency and durability. Two or more can be wired together (with any 2-conductor cable) to form a private telegraph line—can be miles apart. Has built-in transistor oscillator. Supplied with key on 9x12 board that lists code, earphone, message pad, and batteries. Wt., 2 lbs.

top-quality, moderately priced key fine for both beginner and experienced operator. "Cushion contact" design offers smooth keyling action. Heavy diecast base is finished in black wrinkle enamel. All mechanical parts are nickel-plated. % silver contacts. Adjustable tension, contact spacing and bearings. Wt., 2 lbs.

39 5 903. NET 3.25

H JOHNSON MODEL 114-300 PRACTICE KI Low-cost general-purpose key. Brown phenc base and knob. Adjustable key arm, spring and be ings—easily adjusted tension and contact spacing silver contacts. With code card. 8 oz. NET 2.

JOHNSON MODEL 114-450 BUZZER CO PRACTICE SET. Consists of key and const high-frequency buzzer on brown bakelite base. S ver contacts. Can be used singly or in pairs. I quires 2—1½ v. batteries. Wt., 2 lbs. R9 S 910.

frequency buzzer alone (as used on set above Use with any hand key. Provides enough volume several listeners. Screw adjustment varies to Requires 2—1½ v. batteries. Wt., 5 cz.





gh-quality unit for use with TC-2 TV camera, at right. Utilizes rectangular aluminized 90° kinescope. Contains horizontal d vertical sweep circuits, high and low-voltage power supply. requires video sync input of -0.3 to -2.5 v. peak-to-peak rough rear-panel SO-239 connectors (2 bridged). Video sponse: 600 lines (8 mc \pm 1 db. High voltage: 14 kv. Front and Controls: On/Off-Brightness, Contrast, Horiz. Hold, Vert. bld, Height, Vert. Linearity. Rear Panel Controls: Horiz. priz. Stability. Centering control on yoke. Fused. Metal case, \$\frac{2}{10}\frac{1}{2}\times 10\frac{1}{2}\times 10\triangle 10\trian cle AC. Shpg. wt., 20 lbs.

SU 057-J. \$10 Monthly......NET 189.00

MODEL TC-2 TV CAMERA

New, low-cost, completely self-contained portable TV camera. Finds many uses in schools, factories, warehouses, banks, hospitals, homes, etc. Provides excellent resolution, has high light sensitivity. Transmits picture to any TV set, monitor such as TM-2 Monitor at left, or master TV cable system. Provides crisp, clear images of any object or scene.

Produces tunable RF output on Channels 2 to 6 as well as video signal output. Features automatic light level compensation circuit. Has resolution of 400 lines on video output and 300 lines on rf output. Hand-wired chassis utilizes six tubes. Output: RF channels, 0.1 volt; video, 1.5 volts peak-to-peak. Lens is 48-mm coated f 1.9, auxiliary lenses listed below. Compact, only 61/8x 45/8x10". For 110-120 v., 50-60 cycle AC. 14 lbs. 89 SC 059-J. \$20 Monthly......NET 449.00

89 SX 060. Model P-1 Tripod. Three sections, opens to 70", closes to 27". Has elevator, pan head, quick-release nylon locks, no-slip rubber tips. Gray finish. 10 lbs......NET 17.95

89 SX 061-J. W-1 Wall Mount. With pan head. 5 lbs. . NET 14.95

89 SC 062-J. 15-mm Coated F 1.9 Lens. 1 lb..........NET 41.25

89 SC 063-J. 25-mm Coated F 1.9 Lens. 1 lb. NET 29.25

89 SC 064-J. 3" 75-mm Coated F 1.9 Lens. 1 lb....... NET 37.50

89 SC 065-J. 6" 150-mm Coated F 3.5 Lens. 1 lb...... NET 67.50

INDUSTRIAL, PUBLIC SAFETY, AND AIRCRAFT RECEIVERS









ODELS MR-10 and MR-33. Monitor 152-4 and 30-50 mc bands. Adjustable tuelch, 5" speaker, 4 μν. sensitivity. 7 bes, 6X4 rectifier. 7 ½x11 ½x6½". For 110-10 VAC. 18 lbs.

SX 667-J. MR-10. 152-174 mc. NET SX 668-J. MR-33. 30-50 mc EACH 72.50

OBIL'E MODELS M-40 and M-160. For)-50 and 152-174 mc. Tuned RF stage, 4" beaker, squelch. 4½x6½x8¾". For 12 v.

C only. Wt., 12 lbs. S 669-J. M-40. 30-50 mc... NET S 670-J. M-160, 152-174mc. EACH103.55

rystal-controlled Models MRC-10 and RC-30 at \$79.95, and Models MC-40 and C-160 at \$122.95 available on special der, Specify frequency desired.

MODEL PR-35. Moderately-priced FM receiver for the 30-50 mc range. Features a temperature compensated superhet circuit for drift-free reception. Ratio detector circuit minimizes noise under "no signal" conditions. Provides 100 kc selectivity with 10 µv sensitivity. 4" PM speaker. 5 tubes plus rectifier. Plastic cabinet. 6x9 ½x5 ½".
For 110-120 v., 50-60 cycle AC, or DC. Shpg. wt., 6 lbs. 90 S 664-J.

.. NET 54.40 90 S 665-J. PR-155. 152-174 mc....54.40

MODEL DR-200 2-BAND FM RECEIVER. Frequency ranges: 30-50 mc and 152-174 mc. Dual-conversion; provision for one crystal-controlled frequency in each range (less crystals). Has squelch. Sensitivity for 20 db quieting: 30-50 mc, 1 \(\mu v \); 152-174 mc, 2 \(\mu v \). 14 tubes; 5Y3GT rect. 8x14\(\lambda x \)
9\(\lambda'' \). Less speaker (below). For 115 VAC. 21 lbs. Crystals available on special order for \$11.95 each. Specify frequency. Allow 3 weeks for delivery. NET 169.50

RECEIVER ACCESSORIES

MODEL M-20 WINDOW MAST AN-TENNA. Whip for DR-200 and MR-33 receivers (above) in 30-to-50 mc range. telescoping brass assembly having 90° mounting adjustment for window sill or vertical surface. With mtg. bracket. Shpg. wt., 21/4 lbs. 90 SX 671-J. NET 7.35

MODEL DRS-1 METAL-ENCLOSED 6" SPEAKER. For DR-200. Size, 8x7 1/2x7 1/2". Shpg. wt., 6 lbs. 90 SU 672-J. NET 14.95
MODEL M-7A GROUND-PLANE ANTENNA. With 4 radials. For 152-174 mc.



HALLICRAFTERS CRX-2 FM MONITOR RECEIVER, Receives 151-174-mc split-channel NBFM communications. Triple conversion 10-tube circuit. Vernier tuning or 2 fixed channels (less crystals), 1.5 μ v. sensitivity. Built-in speaker. 5 $\frac{1}{4}$ x13 $\frac{1}{2}$ x8 $\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC. 15 lbs.

90 SX 676-J. CRX-3, AM Aircraft Monitor Receiver. As above, for 108-135 mc band. Dual conversion. 7 tubes......NET 94.95

GONSET 3156-B AIRCRAFT MONITOR. Receives 108-135 mc AM communications. Features variable squelch, AGC, and noise limiter. Has built-in speaker, external speaker output, muting contacts. 8 tubes plus rectifier. 41/2x61/2x10". For 110-120 v., 50-60 cycle AC. 11 lbs. 90 SU 677-J. \$7 Monthly......NET 119.95

giant trades, so why not modernize your station? Write today—describe your trade-in and tell us what gear you need. You'll get a terrific deal at Allied!

... OUR 42nd YEAR OF SERVICE TO RADIO AMATFIIRS EVERYWHERE

EASY TERMS. With our Credit Fund Plan, you own any gear you need right away...for no money down, low monthly payments, and up to 24 months to pay. You get more buying power, too!

FREE HOME TRIAL. Try out any ne equipment in your home. Then, if you not fully satisfied, return it to us. We promptly refund the purchase price, le only transportation charges.

Selecting a Communications Receiver

Receivers are classified into two groups: (1) General-Coverage types tuning the broadcast band and shortwave, including Ham bands

(some also tune longwave); (2) Amateur types covering Ham bands only. Two stars, **, indicate General-Coverage; one *, Ham types.

FAMOUS Hallicrafters EQUIPMENT



NO MONEY DOWN

150 Watts PEP Input on 80 Through 10-41 Transistors Plus 3 Tubes and 49 Diodes

MODEL FPM-200 SSB TRANSCEIVER

A genuine advancement in transistorized com-munications equipment! The compact, 24%-lb. FPM-200 operates on all bands from 80 through 10 meters on SSB, CW or AM. 41 transistors, 49 diodes and 3 tubes; receiver and low-level trans-itter circuits, are fully transistorized. Tubes: mitter circuits are fully transistorized. Tubes: 12BY7 driver and 2—6146s final. Has 2 separate PTO's-selector switch permits instant choice of independent or simultaneous tracking frequency control. Designed for fixed, portable and mobile

work, also features: linear calibrations accurate to 1 kc; 100-kc calibrator; CW monitor; USB/LSB selection; plug-in modular construction; crystal selection; plug-in modular construction; crystal filters for maximum receiver selectivity and unwanted sideband suppression; 1 $\mu\nu$ receiver sensitivity; many other highlights. With separate AC power supply (not illus.), 5x7x11", that contains speaker, key jack. Transceiver, 5x16x11". For 105-125 v., AC or 12 v. DC. Wt., 62 lbs.

90 SZ 063J. No Money Down.... NET 2650.00



* SX-115 RECEIVER

A precision triple-conversion receiver for supereception of Amateur SSB, CW and AM signal Band-pass filter front end offers equivalent of tuned circuits before 1st mixer for splendid "out-o band" rejection; spurious signal and image r jection are 60 db. Covers 5 Ham bands and WWV these segments: 3.5-4.0; 7.0-7.5; 14.0-14.5; 21.0-21. 28.0-28.5; 28.5-29.0; 29.0-29.5; 29.5-30.0; 9.5-10.0 m 1st and 3rd converters are crystal controlled. Seletivity variable in 5 steps from 500-5000 cps. Sensiti ity, less than ½ µv on SSB/CW. Has separate AN for SSB/CW and AM; product detector for SSE CW; linear tuning with 1-kc calibrations; dual loo AVC; USB/LSB selection; transmitter-type VFC 100-kc calibrator; etc. 10 1/x16x16". Less speake (right, below). For 105-125 v., 50-60 cycle AC. Wt

90 SZ 031 J. \$25 Monthly NET 599.5



COMPLETE PERFORMANCE-MATCHED SSB/CW/AM STATION

* SX-101A SSB RECEIVER

Deluxe dual-conversion receiver offering excellent mechanical and electrical stability, 1 µv sensitivity throughout, and 5 steps of selectivity from 500 to 5000 cps. Ranges are 3.5-4.0, 7.0-7.3, 14.0-14.4, 21.0-21.5, 28.0-30.0 mc—all Ham bands from 80 through 10 meters, and 10-mc position for WWV. Dial also calibrated for 6 and 2 meters; requires 6 or 2-meter converter with 30-34 mc output. Dualscale Illuminated S meter. with zero point independent of sensitivity control, functions with AVC off. Individually lighted band-in-use scales

Also includes: upper and lower sideband selection; crystal-controlled 2nd conversion oscillators; separate AM and SSB/CW detectors; Tee-notch filter; built-in 100-kc marker crystal; direct-coupled series noise limiter; 40-to-1 tuning knob ratio; band-to-band gain equalization; fast and slow AVC switch; antenna trimmer; and many other extras. IFs are 1650 and 50.5 kc, Has 13 tubes; rectifier and VR tube. Rugged steel cabinet, 10 ½x20x16". Less speaker

HT-32B TRANSMITTER

An extremely efficient and versatile table-top transmitter-exciter for SSB, CW and AM operation on 80, 40, 20, 15 and 10 meters. Incorporates 2 special SSB generation techniques: beam-deflection high-level modulator for low-noise, high-stability signal; exclusive 5-mc quartz crystal filter with unwanted sideband rejection of 50 db or more. Geardriven CTO permits direct reading of frequency within 1 kc. Two 6146 tubes in final run up to 144 watts input (PEP two-tone). Both sidebands are transmitted on AM. Distortion products, at least 30 db down; carrier suppression, 50 db down.

Clean keying system for break-in CW, push-to-talk and full voice control system built-in. Logarithmic panel meter permits accurate tuning and carrier level adjustment. Also has separate phone patch input, 52-ohm pi-network output, Hallicrafters exclusive sideband selection, and rear-chassis jack for RTTY frequency-shift keying circuit. In ruggedly designed gray and black steel cabinet with brushed chrome trim. Size, 10 %x20x16". For 105-125 v., 50-60 cycle AC. Shpg. wt., 86 lbs.

90 SZ 033J. No Money Down..... NET 725.00

HT-33B LINEAR AMPLIFIER

Run the maximum legal input with this conservatively rated 1-kw linear amplifier. A matching unit for the HT-32B at left, the HT-33B gives you reliable bandswitched coverage of the 80 through 10-meter Ham bands. Employs a single PL-172 pentode tube in "zero drive" Class AB1 operation for extended tube life and trouble-free service. Panel meters for RF output and cathode current permit simple, fast and precise tuning. Variable pi-network loading for maximum harmonic suppression. 3rd and 5th order distortion products are down 30 db or more.

Stable passive grid input circuit matches 50 to 75 ohms and requires no grid tuning or neutralization— use with any 100-watt exciter. Built-in power supply use with any 100-watt exciter. Built-in power supply has exceptional regulation: screen voltage is controlled by six OA2 regulator tubes; variable bias supply has front-panel control for maintaining proper idling current. Filament, bias and blower circuits, and PL-172 screen are fused. Circuit breaker protects high-voltage supply. Octal plug to apply cut-off bias. Steel cabinet, 103/x20x16°. For 105-125 v., 50-60 cycle AC. Wt., 130 bis.

90 SZ 034J. No Money Down..... NET 995.00

New Ideas in Communications Are Born at Hallicrafters

POPULAR MODEL HT-37 SB/CW/AM TRANSMITTER

arefully designed, moderately priced transmitter brings SSB within everyone's reach. Offers 70 00 watts PEP output on SSB and CW, and 17-25 ts output on AM. Retains the characteristics ch made its "big brother"—the HT-32A—famous. vers the 80 through 10-meter bands, Includes: h stability VFO; sideband suppression of 40 db 1000 cps; calibration system permitting instant / CAL from any transmission mode; full VOX; 5146s in final; ideal CW keying; dual-range er; 52-ohm pi-network output. Size, 9x191/x171/2".



VHF TRANSVERTERS

DDEL HA-6 TRANSVERTER. Easily converts your esent 10-meter SSB, AM or CW equipment to insmit/receive on 6 meters. Can be driven by 10 to 3-watt exciters; has 5894 final for 50 watts PEP tput, 12.5 watts AM output. Nuvistor in receiver int end for excellent noise and sensitivity figures. uilt-in coaxial antenna relay. Less power supply, low. 8x17x8 1/4". Wt., 23 lbs.

DDEL HA-2. Above, for 2 meters. 23 lbs.

SU 050J. \$17 Monthly...... NET 349.50

DDEL P-26. Power supply for HA-2/HA-6. 71/x x x 8 1/2. 105-125 v., 60 cycle AC. 29 lbs.



★SX-111 RECEIVER

An outstanding SSB/CW/AM dual-conversion selectable-sideband receiver with the performance characteristics of the renowned SX-101. Covers 80 through 10-meter Ham bands in 5 bands, with 6th band tunable to 10 mc for WWV. Features high stability; 1-µv sensitivity; 5 steps of selectivity from 500 to 5000 cps; crystal-controlled 2nd conversion oscillator; separate detectors for SSB/CW and AM; Tee-notch filter; built-in 100-kc crystal calibrator; 48:1 tuning ratio; S meter. With 12 tubes plus VR tube and rectifier. 8¹³/ex18¹³/1ex10²/1e³. Less speaker (see R-47 and R-48 below). For 105-125 v., 50-60 cycle AC. Wt., 42 lbs.

90 SU 038J. \$14 Monthly. NET 279.50

HT-41 LINEAR AMPLIFIER

Beautifully engineered linear at a modest price-a fine companion for the HT-37 (left, above), or can be driven by any SSB exciter delivering 20 to 100 watts. Provides bandswitched coverage of 80 through 10 meters. SSB power input is 1000 watts PEP through 20 meters, slightly less on 10 meters. AM phone input, 300 w.; CW input, 800 w. Uses grounded-grid Class B amplifier with 2-7094 tetrode



** SX-100 RECEIVER

opular dual-conversion general-coverage comunications receiver covering 538 kc to 1580 kc and
720 kc to 34 mc in 4 ranges. Has adjustable 50.5
c 2nd IF with 4 high-Q permeability-tuned circuits
or high selectivity—Tee-notch filter reduces
eterodynes. Also has upper and lower sideband
election, delayed AVC, CW operation with AVC on
r off, S meter, phone jack and 100-kc crystal calirator. Electrical bandspread for Ham bands 80
trough 10 meters. Temperature-compensated HFO
nd crystal-controlled 2nd conversion oscillator for
utstanding stability. With 12 tubes; VR, rectifier
½x18½x10½". Less speaker, below. For 105-125 v.,
0-60 cycle AC, Wt., 43 ibs.

© SU 057J. \$16 Monthly.

NET 325.00 opular dual-conversion general-coverage

0 SU 057J. \$16 Monthly.....NET 325.00



** SX-110 RECEIVER

A fine value in a medium-priced general-coverage communications receiver, the SX-110 tunes the AM broadcast band from 540-1680 kc plus 3 shortwave bands from 1680 kc to 34 mc. Slide-rule bandspread dial is calibrated for the 10, 15, 20, 40 and 80-meter Amateur bands, the 11-meter Citizens band, and logging scale. S meter is calibrated in units of 6

HALLICRAFTERS MATCHING SPEAKERS

AODEL R-47. Communications speaker designed pecifically for speech and CW reproduction—xtremely effective on SSB. Has essentially flat esponse from 300 to 2850 cps with rapid drop in output above and below cutoff frequencies. For use

.....NET 12.95

MODEL R-48. Matching 51/2x71/2" speaker for Hallicrafters receivers on these pages or other receivers with 3.2-ohm audio output. Switch at rear permits selection of full-fidelity response for music, or voicefrequency response for communications reception.



NEW!

★SX-117 DELUXE HAM-BAND RECEIVER

All-new triple-conversion communications received for deluxe reception of SSB, CW and AM signals. A high order of mechanical and electrical stability is achieved—has crystal-controlled HFO plus crystal-controlled 1st and 3rd conversion oscillators and transmitter-type VFO. Crystals supplied cover 3.5-4.0, 7.0-7.5, 14.0-14.5, 21.0-21.5 and 28.5-29.0 mc. (Crystals for 28.0-28.5, 29.0-29.5, 29.5-30.0, WWV and non-Amateur ranges available on special order). Sensitivity, at least 1 μν AM and ½ μν CW for 10 db S/N.Selectivity variable in 3 steps from 500-5000 cps. Also: T-notch filter; selectable AVC and USB/LSB; product/envelope detectors; IF-type ANL; audio inverse feedback; backlash-free tuning; etc. 7 1/215x 13". Less 100-kc crystal calibrator (b. speaker (left). For 105-125 v., AC. 21 lbs.

90 SU 061 J. \$18 Monthly...... NET 379.95 MODEL HA-7 CRYSTAL CALIBRATOR. For SX-

117, above. Shpg. wt., 1½ lbs. 90 S 062J......NET 19.95

ALLIED 281

Popular Communications Equipment by hallicrafters

S-120 4-BAND RECEIVER for SHORTWAVE and AM 0.0:0:0

With 3 Separate Antennas

An excellent choice for the SWL, this low-cost receiver brings in worldwide shortwave, ships, planes, Amateurs, time signals, and all your favorite AM programs. Tunes the 550-1600 kc broadcast band plus 3 shortwave bands from 1600 kc to 30 mc. Has 3 separate antennas: ferrite loop for broadcast band, adjustable whip for shortwave, and wire antenna. Aviation and shortwave broadcast frequencies are clearly marked. Electrical bandspread with separate capacitor spreads out stations and simplifies tuning. Front-panel headphone Jack automatically disconnects built-in speaker. Steel case, 5%x 13%x8%". With 4 tubes; rectifier. For 105-125 v., 50-60 cycle AC or DC. Wt., 12 lbs. 90 SX 064. \$5 Monthly.......NET 69.95

Unique, beautifully styled receiver offering peak performance on AM broadcast, shortwave and FM continuously tunes from 550 kc through 109 mcl Precision built to exacting standards, the SX-62A covers these 6 ranges: 550-1620 kc; 1620 kc-4.9 mc; 4.9-15 mc; 15-32 mc; 27-56 mc (FM-AM); 54-109 mc (FM-AM). Push-pull 6V6 tubes in output stage provide 10 watts of full-frequency audio. Has 4-position tone control; phono-input lack; illuminated wides. tone control; phono-input jack; illuminated, wide-vision slide-rule dial; 60-to-1 tuning ratio; 500-kc

calibrating crystal; AVC and noise limiter. Six-

** DELUXE SX-62A FM-AM-SW RECEIVER

Remarkably Wide Six-Range Coverage Includes Standard AM Broadcast, 3 Shortwave Ranges, Plus 2 FM-AM Bands Covering from 27 to 109 mc.

position crystal filter circuit, 3 iF and 2 RF sta give high sensitivity and selectivity. Other highlig include: separate RF and AF gain controls; temper ture compensated, voltage-regulated oscillator; E for code reception; front-panel headphone jack;

NEW S-118 :0000

** MODEL S118 LW-AM-SW RECEIVER

All new from Hallicrafters-a 5-band receiver with extended coverage of the low frequencies. Hear FAA weathercasts, beacons, consolan, aeronautical mobiles, the 500-kc distress frequency, plus AM broadcast and worldwide shortwave. Covers these ranges: 185-420 kc; 495-1620 kc; 1.6-4.95 mc; 4.85-15 mc; 14.8-31 mc. Features slide-rule dials with electrical bandspread, noise limiter, BFO for code re-

** MODEL S-108 SW-AM RECEIVER

A fine general-coverage receiver superseding the renowned S-85 series-co pletely restyled for improved operating ease and greater tuning accuracy. Turstandard broadcast and shortwave continuously from 540 kc to 34 mc in 4 rang. Slide-rule bandspread dial calibrated for 80, 40, 20, 15 and 10-meter Ham band and logging scale. One RF stage, 2 IF stages and separate bandspread capacit Other highlights include: variable BFO; stable, temperature-compensated (ciliator; automatic noise limiter; 3-position tone control; built-in 5" PM speak AVC; front-panel headphone jack; standby-receive switch. Has 7 tubes pi rectifier. 8x183/4x103/4". For 105-125 v., 50-60 cycle AC. Wt. 35 ibs. 90 SU 067. \$7 Monthly.... NET 139.

BEGINNER'S SPECIAL! SKY-BUDDY II RADIO



KIT FORM

MODEL S-119. A dandy "first set" for the newcomer to shortwave listening! He'll hear ships, planes, Hams, foreign broadcasts and AM programs on this inexpensive radio. Superhet circuit tunes standard AM from 535-1620 kc, and shortwave from 2-5.5 and 6-16 mc. Has smooth-tuning planetary dial drive, BFO for code reception, built-in speaker, transformer power supply, bandswitch control, phone tip jacks, etc. Steel case, 5x10½x7½. 3 tubes; diode detector. For 115 v., 60 cycle AC.Wt., 9

lbs. \$5 Monthly. 90 SX 068. Factory Wired.....NET 49.95 90 SX 069. Kit Form......NET 39.95

Complete 6-Band CW/AM Phone Station



HT-40 TRANSMITTER

Carefully designed 6-band CW and AM transmitter -a fine companion for the SX-140 (right).

* SX-140 RECEIVER

SX-14

Sensitive, selective Ham-band receiver for 80 through 6 meters—matches HT-40 (left) in size, stylin quality and bands covered. Has S meter, ANL, BF(electrical calibration reset, phone jack, anteni trimmer, etc. Illuminated slide-rule dial with 25-to tuning ratio. Internal switching for transmitter ar antenna change-over. 713/xx13/xx81/4". Less speak (see R-47, R-48, preceding page). For 105-125 v 50-60 cycle AC 14 lbs. 57 Monthly. 90 SU 087. Factory Wired. NET 139.9 90 SU 088. Kit Form \$6 Monthly.... NET 114.9

HA-5 DELUXE HETERODYNE-TYPE VFO

A self-powered and extremely stable heterodynetype VFO. Illuminated dial is calibrated for all Ham bands from 80 through 2 meters. 5.0-to-5.5 mc variable oscillator may be directly zero-beated with WWV. A 30-to-1 tuning ratio allows precise tuning.



AMATEUR GEAR

NEW

FOR BOTH 6 & 2 METERS



ODEL 62S-1 VHF CONVERTER

6 and 2 meter transmitting and receiving conr more than doubles your frequency coverage of present "S" line. Provides full 6 and 2-meter ation at the flick of a switch—and with no cable ging—when moving from HF to VHF. Using your ant exciter's high voltage, the 62S-1 supplies a 5-db noise figure on receive and 160 watts PEP t to 7034 /4X150 final amplifier on transmit. er output is 65 watts PEP minimum.

gned primarily for use with the "S" line, KWM-d KWM-1, the VHF adapter will convert most r equipment operating in the 14.0 to 14.2 e. Transmits and receives on SSB, CW, AM or Y, as determined by the exciter and receiver I. Receiving sensitivity, 1.2 μ v maximum on 2 ars and 1.3 μ v maximum on 6 meters (for 10 db using 3 kc audio bandwidth). Image rejection, ter than 100 db on 6 meters; greater than 60 db on ters. IF rejection, greater than 90 db. Other spus responses, at least 50 db below 1 µv desired al level. Minimum receiver radiation.

uency range is 49.6 to 54.2 and 143.6 to 148.2 precision 0.005% crystals furnished cover 50-54 144-148 mc. Panel meter reads PA grid /plate ent and output Input /output Imp., 50 ohms. Rees 800 v. DC @ 220 ma and 275 v. DC @ 30 ma

MODEL KWM-2 SSB/CW 5-BAND TRANSCEIVER

Compact transceiver reflecting the modern concept of mobility, versatility and styling in Ham Radio SSB systems. Ideal for mobile, fixed-station, aero-nautical and marine use, unit covers the 80 through 10-meter Ham bands plus 14.8 to 15.0 mc for WWV. Input is 175 watts PEP on SSB and 160 watts on CW Provides upper or lower sideband emission on SSB and break-in CW keying (with sidetone) free of chirps and clicks. Efficient filter-type SSB generation gives carrier suppression of 50 db; unwanted sideband suppression, 50 db. Crystal-controlled dual-conversion receiver has sensitivity of $\frac{1}{2}$ $\mu\nu$ for 10 db S/N; choice of any 14—200-kc segments by frontMODEL MP-1 12-VDC POWER SUPPLY. (Not illus.)

MODEL 516F-2 115-V. 50-60 CYCLE AC POWER

KWM-2 AND "S" LINE ACCESSORIES (Not Illus.)

MODEL 312B-5 SPEAKER CONSOLE AND EXTERNAL PTO. For KWM-2 transceiver. Combines KWM-2 and accessories into a complete fixed-station operating system. With speaker, RF directional wattmeter, phone patch and function controls. Has VOX and receiver disabling. Provides following combinations of frequency control; transcelve on KWM-2 PTO; transceive on 312B-5 PTO; receive on KWM-2 PTO and transmit on 312B-5 PTO. 73/x10x

90 SU 093. \$17 Monthly..... NET 350.00

MODEL PM-2 PORTABLE POWER SUPPLY. Con-

MODEL 136B-2 NOISE BLANKER. Mounts on top cover of KWM-2. Effectively suppresses pulse-type interference from motors, ignition systems, etc.
Powered by KWM-2. Wt., 4 lbs.
30 S 099. \$7 Monthly..........................NET 124.00

312B-3 SPEAKER. For S line. 73/x10x8". 4 lbs. 90 SX 100. \$5 Monthly.... NET 32.00



NEW MODEL 32S-3 SSB TRANSMITTER-EXCITER

s new, improved version of the popular 32S-1 includes a host of new features the ultimate in CW operation as well as better-than-ever SSB. A perfect com-tion for the 30S-1 linear and 75S-3 or 75S-1 receivers, the 32S-3 provides up to watts PEP input on SSB and 160 watts input on CW. New features include: rier insertion keying, frequency spotting control, keying-hardness control etone level adjust, and simplified oscillator patch disconnect. Mechanical er-type SSB generator, PTO, RF inverse feedback, etc. have been retained.

quency control system consists of VFO with crystal oscillator that accommoto 30 mc. The 11 crystals supplied cover 80 through 15 meters, and 28.5 to 7 mc. Overall frequency stability after warm-up is within 100 cps. Provides 50 suppression of carrier, unwanted sideband, and oscillator feed-through and xer products. Audio frequency response, nominal 300-2500 cps ±3 db. Panel ter monitors final plate current, grid current and ALC voltage. Approximately db of RF feedback around PA and driver for improved linearity. Has 600-ohm

DDEL 516F-2 POWER SUPPLY. For 32S-3 transmitter, above. With cables 28, 7½x10x12". For 110-120 v., 50-60 cycle AC. Shpg. wt., 29 lbs. SU 092. \$6 Monthly.....

* MODEL 75S-3 SSB RECEIVER

Latest addition to the "S" line of precision Ham-band receivers, the 75S-3 offers new versatility in SSB, CW and RTTY reception. It combines the qualities of the well-known 75S-1 with these new features: single-control Q multiplier for 50 db rejection of unwanted heterodynes and carriers; choice of variable or crystal BFO; sharp 200-cps crystal filter for CW; 2.1-kc mechanical filter for SSB, CW and RTTY; choice of two AGC decay time constants. Concentric RF-AF gain controls and spinner tuning knob add increased operating convenience. The 75S-3 may be used alone, or with the 32S-3 and 312B-4 console to make a complete, compact station; receiver will control both units for transceiver operation.

Tuning system employs PTO with crystal oscillator that accommodates 14 crystals. The 12 supplied fully cover—in 200-kc segments—80, 40, 20 and 15 meters, WWV on 15.0 mc, and 28.5-28.7 mc. (Two open crystal positions cover 2 more ranges on 10 meters.) CW sensitivity is 0.5 μ v, measured with 50-ohm dummy antenna and 10 db S/N ratio. Other highlights: crystal-controlled dual conversion, product detector, 100-kc crystal calibrator, LSB-USB selection, 5-kc IF transformer for AM reception, receiver muting, etc. Less speaker (see "S" line

.... NET 620.00

MODEL 75S-1 RECEIVER. Earlier version of the 75S-3, with crystals for same ranges as above. Size, 6%x14%x11%". Shpg. wt., 21 lbs. 90 SU 109. \$22 Monthly.

MODEL 30L-1 LINEAR AMPLIFIER

fine medium-powered grounded-grid linear amplifier for SSB and CW emison. Can be driven by the 325-3, KWM-2 or most 70-to-100 watt exciters. Operes at 1000 watts PEP input (500 watts nominal output). Covers the 80, 40, 20, 15 ed 10-meter Ham bands with sufficient overlap for general coverage from 3.4 to mc. (Input circuit requires trimming at frequencies far from Ham bands.) eatures include: RF inverse feedback; automatic load control; high-low power witch: built-in power supply with silicon rectifiers. Tube complement consists 4-811A triodes. Panel meter reads final plate current, plate voltage and tuning rcuit. Antenna is automatically transferred to exciter when the 30L-1's switch in "Off" position. Entirely self-contained and designed for table-top use—all entrols are conveniently accessible on the front panel. Unit has 50-ohm output.

MODEL 30S-1 LINEAR

Efficient grounded-grid linear amplifiermatching unit for the 32S-3 or other exciter delivering 70-to-100 watts drive. Runs full legal input limit on SSB (1 kw average) or 1 kw CW input to a 4CX1000A power amplifier. Covers Ham bands 80 through 10 meters. Incorporates inverse feedback for better linearity. ALC, up to 12 db. Built-in power supply. Space for 516F-2 supply for 32S-3. Quiet,





Precision-Made Receivers by NATIONAL





★NC-155 RECEIVER

- Dual Conversion on 80-6 Meters
- . 1 av Sensitivity
- 3-Step Selectivity

Performance engineered for relaxed Ham-band work, this receiver brings you dual conversion and 1 µv sensitivity (for 10 db signal-to-noise) on all bands 80 through 6 meters. Variable If selectivity with "Ferrite Filter" provides 3-position selectivity: 600

NTS-3B MATCHING SPEAKER, For NC-155, NC-190 and NC-140. 3.2 ohms. 8 1/2 15 1/2", 5 lbs. 90 SX 174. \$5 Monthly.

XCU-109 1-MC CRYSTAL CALIBRATOR. For NC-140, NC-155 and NC-190, Wt., 1 lb.

for Discriminating Listeners and Hams



**NC-140 RECEIVER

- Dual Conversion 1 μν Sensitivity
- Q Multiplier
- Product Detector

All-new from National—an outstanding value in a medium-priced communications receiver. Features 1 µv sensitivity for 10 db S/N, dual conversion above 4 mc, and continuous coverage from 540 kc to 31 mc in 5 ranges. Dial selector permits instant choice of calibrated bandspread for the 80 through 10-meter Ham bands plus the 5 most popular SW broadbands plus the 5 most popular SW broadcast bands. Active peaking Q multiplier for continuously variable selectivity on AM /CW / SSB. Has RF stage, 30:1 tuning ratio, SSB / CW product detector, BFO, ANL, AGC, "Flip Foot", etc. 8%x15%x9". Less NTS-3B speaker and XCU-109 calibrator (see above). For 105-125 v., 50-60 cycle AC. Wt., 28 lbs. 90 SU 004. \$10 Monthly.... NET 189.95

**NC-190 RECEIVER

An economically priced general-coverage receiver offering double conversion and a host of other important features for both Hams and listeners. Tunes 540 kc to 30 mc with 5 calibrated bandspread ranges for the 80-10 meter Amateur bands, plus 6 calibrated bandspread ranges for the 49, 31, 25, 19, 16 and 13-meter international shortwave bands, "Ferrite Filter" and dual-conversion circuit provide true variable IF selectivity, instant sideband selection and optimum image rejection—selectivity: 600 cps CW, 3 kc SSB, 5 kc AM.

Sensitivity is better than 1 µv for 10 db signal-to noise. IF's are: 1st, 2215 kc; 2nd, 230 kc. Voltage-regulated oscillators and ceramic coil forms for maximum stability. Also has: 60-to-1 bandspread vernier; separate product detector and full SSB/CW AGC; noise limiter; S meter; standby-receive switch; calibrated USB/LSB BFO control; "Flip Foot"; etc. 8%x15%x9". Less speaker (right) and crystal calibrator (left). For 105-125 v., 50-60 cycle AC. Wt., 28 lbs.

90 SU 001. \$11 Monthly...... NET 219.95

★NC-270 RECEIVER

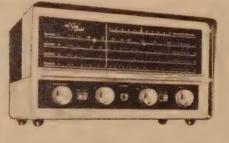
Fine dual-conversion receiver for deluxe recept SSB/CW/AM on the 80-through-6 meter H bands, Surprisingly low priced, it has built-in 100 crystal calibrator; "Ferrite Filter" for instant si band selection and 5 degrees of variable IF selective from 600 cps to 5 kc; better than 1. µx sensitivity for db S/N on all bands, including 6 meters; sepan product detector for SSB and CW; distortion-fi ANL: S meter; etc.

More than 50 db rejection of unwanted heterodyr obtainable with bifilar T-Notch and Depth control

90 SU 002. \$14 Monthly NET 279.

NTS-3 MATCHING SPEAKER. For NC 270, 3.2 ohn

90 SX 003. \$5 Monthly......NET 19



**NC-60B "SPECIAL"

Well suited for a "first receiver" at this low price, the NC-60B tunes worldwide shortwave and standard broadcast from 540 kc to 31 mc in 4 band-switched ranges. Clear markings on large, slide-rule dial show where marine, aircraft, WWV, Amateur; standard and foreign broadcasts are to be found. Electrical bandspread with 0-100 logging scale, plus selectivity of 5 kc at 6 db down, help to separate crowded shortwave signals.



★NC-303 RECEIVER

Deluxe double-conversion receiver offering supersensitivity, stability, and SSB/AM/CW versatil sensitivity, stability, and SSB/AM/CW versatil for its price class. Covers the 10-through-160 met Ham bands plus 11 meters. Has 5 selectivity positio—sharp down to 400 cps, to 8 kc at 6 db down; insta USB/LSB selection; Q multiplier with 60 db tunab notch; separate CW/SSB product detector; AGC; et 11 ½x19 ½x15°. For 110-120 v., 50-60 cycle AC. W 64 lbs. VHF converters available on special orderwrite for details. write for details.
90 SZ 006. \$20 Monthly. 200 NET 449.0

90 S 007. MODEL XCU-300 CRYSTAL CALIBRA TOR. For above, 1 lb. \$5 Monthly. NET 23.

90 SX 017. NTS-2 MATCHING SPEAKER. For N 303. 11 1/4 x 9 1/2 x 8". 12 lbs. \$5 Monthly NET 21.

** NC-105 LOW-COST RECEIVER

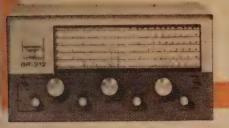


- Covers 550 kc-30 mc • Illuminated S Meter
- Q Multiplier; AGC

90 SX 191. MODEL NC-105W. Above, in oiled walnut cabinet. For living room or den..... NET 139.95

GONSET... Noted for Pace-Setting Design

LATEST BUDGET-PRICED RECEIVERS



**GR-212 RECEIVER

- Double Conversion
- 6 Bandswitched Ranges "Big Set" Sensitivity

ne only dual-conversion superhet available at this w price, the GR-212 really separates crowded gnals! Sensitivity: at least 1 µv for 6 db S/N on gh-frequency bands. Covers: 2 to 30 mc in 5 ranges,



VFO FOR 6, 2, 11/4 METERS

AODEL 3357 COMMUNICATOR VFO. Use with Communicator, I, II, IV (right); GC-105 right); any 6, 2 or 1 1/4-meter transmitter using 8-mc rystals; etc. Separate dial calibration for each band. lighly stable—oscillator operates continuously. tas 8-mc output, mike connector for NBFM, and 3



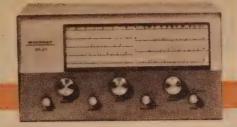
3261 "SUPER-12" MOBILE CONVERTER. Covers 75, 40, 20, 15, 10-11 meters plus 19 and 49-meter SW bands. Operates from 12 v. DC (@1.2 a.)—attach it in minutes. Has RF stage, antenna trimmer, low-noise triode mixer, 1430-kc output, etc. With cables. Only 31/x51/x51/x. Wt., 5 lbs.

90 S 011. \$5 Monthly NET 89.95

3163 MOBILE MARINE CONVERTER. Easily installed unit for monitoring the 1.6 to 3.0-mc marine range. Tunes ship-to-shore, ship-to-ship, marine weather, Amateur and police communications. Requires only 12-v. DC—no internal connections to car radio needed. With cables, 3 ½x4x4*. Wt., 5 lbs. 90 S 012. \$5 Monthly.......NET 39.95

3001 NOISE CLIPPER. Series-gate type. Reduces ignition noise. Connects easily to 2nd detector cirar radio. 2x4x1 1/2". Wt., 2 lbs.

.....NET 13.30 90 S 013.



* +GR-211 RECEIVER

A low-cost general-coverage receiver for quality reception of both phone and CW stations. Tunes standard AM and worldwide shortwave from 540 kc to 34 mc in 4 bandswitched ranges. Also has calibrated bandspread for the 10, 15, 20, 40 and 80-meter Ham bands, plus 11-meter Citizens Band. Two illuminated bands, blus 11-meter Citizens Band. We multiplication of frequency calibrations. Also has built in speaker, antenna trimmer, vernier tuning, high-Q permeability-tuned coils, etc. Size, 8x12x10", For 115 v., 60 cycle AC. Wt., 27 lbs., 90 SU 158. \$5 Monthly.......NET 69.95



G-76 6-BAND TRANSCEIVER

MODEL 3338. Compact transceiver offering exceptional operating flexibility on 80-6 meters. Controls at fingertip—ideal for mobile. Inputs are 100w. AM and 120 w. CW with stable VFO (all bands but 50 mc), 6DQ5 final, pl-network, push-to-talk. Dual-conversion receiver has 1 μv sensitivity for 6 db S/N, 3-3.5 kc bandwidth at 6 db down, S meter, ANL, etc. 51/4×125/4× Less supply, below, 20 lbs.

90 SU 008. \$19 Monthly.....NET 429.95

SELECTED VHF TRANSCEIVERS





COMMUNICATOR IV

- Triple Conversion • 24 Watts Input
- For117VAC/12VDC

MODEL 3341 2-METER TRANSCEIVER. For reliable mobile, portable and fixed communications on 2 meters. Has built-in supply for 110-120 v., 50-60 cycle AC plus transistorized supply for 12 v. DC. Just 5x121/2x11". Selective triple-conversion receiver has crystal-controlled 1st converter; 0.4 sensitivity; low noise; ANL; squelch. Transmitter runs 24 watts input to 6360 final; provision for 6 crystals; tuning meterhigh-level speech clipping and 10 watts of audio assure full talk power. Slide-rule dial. Panel speaker.

with cables. 29 lbs.

90 SU 014. \$18 Monthly. NET 389.95

MODEL 3342 6-METER TRANSCEIVER. Similar to above, but for 50-54 mc. 29 lbs.

90 SU 015. \$18 Monthly.....NET 389.95

GC-105 COMMUNICATOR

- 6 Watts Output
- · High-Level Clipping · Simplified Tune-Up

2-METER TRANSCEIVER. The latest in the famous "Gooney-Bird" VHF line, the GC-105 is a fully self-contained 2-meter AM-phone station with built-in power supply for 110-120 v., 50-60 cycle AC and 6/12 v. DC. Excellent for under-dash mtg. or home 6712 V. D.C. Excellent for under-dash ring. of norms station use. Tunable receiver utilizes tow-noise 6BZ8 RF tube in sensitive "cascode" circuit; also has squelch, AVC, and gang-tuned circuits for high image rejection. Meter reads both relative RF output and signal strength to +30 db over S9. Broadband exciter stages simplify transmitter tune-up; nominal output, 6 watts. Modulator has high-level clipping. Front-panel sockets accept 6 crystals. Built-in speaker. 6 1/2/15 1/2/82". With cables. 29 lbs. 90 SX 104. \$13 Monthly. NET 259.95

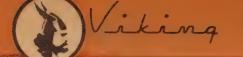
GSB-201 LINEAR AMPLIFIER

A top-quality 5-band linear amplifier providing high power in true table-top dimensions. Only 81/2x121/4x 17", the GSB-201 covers the 80 through 10-meter Ham bands with power inputs of 1500 watts PEP on SSB, 1000 watts CW, and 400 watts AM. Fully bandswitched, it uses 4 low-cost 811A tubes in stable, grounded-grid circuit with pi-network output. Can be easily driven by any commercially manufactured or home-built exciter in the 65-to-150 watt category—requires 100 watts PEP drive for maximum of 1000 watts PEP output. Switchable full-vision meter reads plate current or relative power output. Antenna changeover relay and bias supply are built-in. Long-life silicon rectifiers in high-voltage power supply.



\$19 monthly

1500 Watts PEP Input on 80 Through 10 Meters



Pick Your Power and Most-Wanted Feature



\$36950

FILTER-TYPE SSB ADAPTER

- Instant Bandswitched Coverage of 80-10 Meter Bands
- Smooth VOX and Anti-Trip
- With Remote Supply, Cables

Adapts AM/CW Rigs to SSB When used with either Valiant transmitter, places 275 watts PEP input at your command!

MODEL 240-305-2. Just out, a filter-type SSB adapter quality-engineered in the Viking tradition! Ideal for use with the Valiant II (right), adapter consists of 2 compact units—a matching table-top RF unit and separate power supply of 2 compact units—a matching table-top RF unit and separate power supply with connecting cables. Offers positive-acting VOX /anti-trip with anti-trip matching transformer and adjustable VOX time-delay; balanced audio response; 40 to 50-db suppression of sideband, carrier, spurious signals; instantly selectable USB /LSB; 50-ohm pi-net output. Built-in multiplier requires VFO input only—Valiant or Valiant II provides frequency control.



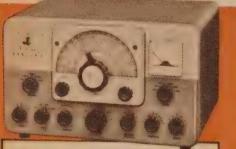
VALIAN

10 Through 160 Meters

"VALIANT II" AM/CW TRANSMITTER

MODEL 240-105-2. An all-new version of the renowned Valiant, this 6-bar transmitter has the features of its predecessor plus many more—including co fittings for plugging in accessory SSB units, differential temperature compe sation in VFO for extreme stability, and low-level audio clipping for increases communications power. Provioes complete bandswitching on the 160 throug 10-meter bands. Delivers 275 watts input on CW (or SSB with auxiliary SS exciter or new Viking SSB Adapter, left) and 200 watts AM phone. VFO operation the 1.75-2.0 and 7.0-7.45 mc ranges for superb stability. Efficient pi-netwo circuit, with silver-plated final tank coil, matches 50-600 ohm loads.

Fully TVI suppressed with electrically sealed cabinet, shielded meter lead bypassed harness leads and filaments: filtered power line, relay jack, auxilia socket leads, etc. Also has time sequence keying; built-in fused power supp with regulated screen voltages on modulator and VFO (also on final amplifier



AM and CW on 7 Ham Bands

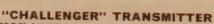
"RANGER II" TRANSMITTER

MODEL 240-162-2. Latest model of this famous AM/CW bandswitched transmitter covers the 160 through 6-meter Ham bands with crystals or built-in VFO. Pi-network final runs 75 watts input on CW and 65 watts AM. Has time-sequence (grid block) keying clean break-in. Temperature-compensated VFO calibrated for each band, 100% modulation; 250-3000 cps response. Full meter switching. Takes high-impedance mike. TVI suppressed. 9%x15/2x14". Less crystal, mike and key. For 110-120 v., 50-60 cycle AC. \$17 Monthly

90 SZ 124J. Factory Wired..... NET 359.50

90 SZ 125J. Kit Form. \$13 Monthly . . NET 249.50





MODEL 240-182-2. Ideal for fixed or portable use, the Challenger features 6-band operation on CW and AM phone. Inputs: 70 watts phone on 80-6 meters, 120 watts CW on 80-10 meters, and 85 watts CW on 6 meters. Efficient, "straight-through" final uses 2—6DQ6A tetrodes, bridge neutralized. Has pi-network output for 40-600 ohm antennas, and front-panel socket for plugging in crystal or external VFO, Instant bandswitching. Effectively shielded and filtered to prevent TVI. Less crystal, mike and key. 15 ½x13 ½x 12 ½." For 110-120 v., 50-60 cycle AC. Wt., 31 lbs.

90 SU 503J. Factory Wired NET 169.75 90 SU 504J. Kit Form. \$7 Monthly... NET 124.75 240-181-1

250-4

"ADVENTURER" TRANSMITTER

MODEL 240-181-1. This low-cost CW transmitter run 50 watts input to an 807 final on the 80 through 10 meter bands. Easy to assemble and operate, it ha single-knob bandswitching, TVI shielding and filter ing, wide-range pi-network, grid /plate metering an simultaneous keying. Crystal or external VFO control Less crystal and key. 81/4101/4717%. Fused powe supply for 110-120 v., 50-60 cycle AC. Wt., 19 lbs

90 SX 505J. Kit Form..... NET 69.9

MODEL 250-40 SPEECH AMPLIFIER MODULA TOR. For above or similar transmitters. Screen mod Plugs In. Less mike, 43/4x43/4x4". 1 lb.



Use with your low-frequency rig to work VHF—prevent costly duplication of gear

"6N2" VHF TRANSMITTER

- 100-150 Watts Input on 6 and 2 Meters
- TVI Suppressed

MODEL 240-201-2. Bandswitched 6 and 2-meter transmitter. Inputs, 150 w. CW and 100 w. AM phone. Uses power supply/modulator of your low-freq, transmitter. Requires 6.3 v. at 3.5 amps, 300 v. DC at 70 ma, 300-750 v. DC at 200 ma, plus 30 w. of audio. Crystal or external VFO control. Has 2-meter parallel lines, link output. For 8-mc input. Less crystal, mike, key. Size, Wt., 14 lbs

90 SU 507J. Factory Wired, \$10 Monthly.... NET 194.50 90 SU 508J. Kit Form. \$8 Monthly......NET 149.50



"6N2" VHF VFO

- Replaces 8-9
- Mc Crystals Calibrated for 6 and 2
- Stable—Compact

MODEL 240-133-2. Replaces 8 to 9-mc crystals in multiplying 6 and 2-meter transmitters, including overtone-osc. types. Has 6BH6 osc., VR tube. Output, 7.995-9.010 mc. Requires 250-300 v. DC at 10 ma, 6.3 v.

at 0.3 a. 5x4x4½". 3 | bs. 90 S 509J. Factory Wired. \$5 Monthly NET 54.95

90 S 510 J. Kit Form. \$5 Monthly NET 34.95

rom the JOHNSON VIKING Transmitter Line \







"500" TRANSMITTER

DEL 240-500-2. Bandswitched 500-to-600 watt nsmitter covering the 80 through 10-meter bands. nsists of two compact units; an RF section with It-in VFO and efficient 4-400A final; and rugged wer supply /modulation unit (not illus.). Inputs: 600 tts CW, 500 watts AM phone, 500 watts PEP on B (with any 3-watt exciter-not supplied). All operng controls are conveniently located on the RFit's front panel.

iter stages are gang-tuned to the highly stable O-transmitter also may be crystal controlled-de-range pi-L output circuit with silver-plated al tank coil provides excellent harmonic suppresn; loads virtually any antenna. Effectively TVI supessed and filtered. Two panel meters permit mitering of all transmitter functions. Timequence keying for clean break-in work.

her highlights: high-gain push-to-talk audio system th low-level clipping; phone patch input; fused filant /plate supplies, excitation /bias fallure-protec-n, etc. VFO has 6:1 planetary drive—calibrations each band are divided into 10-kc increments.

tes: RF unit, 11%x21x16½"; power supply /mod.,

%x20%x10½". For 115 or 230 v., 50-60 cycle AC.

bls. No Money Down.

SZ 511-2J. Factory Wired..... NET 1050.00

"THUNDERBOLT" LINEAR

MODEL 240-353-2. A top-quality, bandswitching linear amplifier providing 2000 watts PEP input on SSB, 1000 watts CW, and 800 watts AM linear. Offers continuous coverage from 3.5 through 30mc. Completely self-contained-an efficient, flexible tabletop unit. Drive requirements: 10 watts in class AB: linear, 20 watts CW.

Employs 2 parallel 4-400 A tetrodes, bridge neutralized. Pi-network matches 40 to 600-ohm loads. Fully TVI suppressed. Has 2 cooling fans, 2 panel meters, voltage-regulated screen and bias supplies, and plate power supply. Sturdy maroon and gray steel cabinet, 14% x21x167%. For 115 or 230 v., 50-60 cycle AC. 140 lbs. No Money Down.

90 SZ 512-3J. Factory Wired......NET 659.00

90 SU 120. For 6 and 2 meters......NET 549.50

WE'RE TRADING HIGH!

Yes, we're making bigger and better trades on used gear. Write todaytell us about your trade-in and what new equipment you require. You'll get a terrific deal from Allied!

"INVADER" TRANSMITTER

MODEL 240-302-2. Popular transmitter/exciter for SSB, CW and AM work on 80, 40, 20, 15 and 10 meters. Delivers 200 watts SSB /CW input and 90 watts AM. Special high-frequency bandpass crystal filter provides more than 60 db unwanted sideband suppression and 55 db carrier suppression, Instant bandswitching. Stable, calibrated VFO is differentially compensated. RF-controlled audio AGC and ALC (limiter type) give extra speech power—has reserve gain for crystal and dynamic mikes. Mixer-type shaped keying is sharp and click-free, Internal relay controls antenna relay, receiver, built-in VOX, push-to-talk and anti-trip. Single-knob wide-range pl-network.

MODEL 240-303-2. "HI-POWER CONVERSION"

MODEL 240-304-2 "INVADER-2000." Consists of both units above. 183 lbs. No Money Down.

90 SZ 143J. Factory WiredNET 1229.00



VIKING "6N2" CONVERTERS. Compact VHF converters for efficient 6 and 2-meter reception th any communications receiver. Provide instant, int-panel bandswitching from normal low-fre-ency receiver operation to either 6 or 2-meter eration. Crystal-controlled broadband type— inply tune receiver to cover VHF bands. All provide the band coverage except *50-52 and 144-146 mc verage.

ses 6FSB dual-triode RF amplifier in neutralized scode circuit, for maximum sensitivity and low ise. Excellent image and IF rejection due to doublened, overcoupled interstage circuits on both 6 and meters. Manual RF gain control, plus mixer gridak self-regulating action, prevent overloading. inimum cross-modulation. Cabinet, 5x23/x12". ised, transformer-type power supply for 110-120 v., i-60 cycle AC. Wt., 5 lbs.

MODELS IN KIT FORM

Stock	Model	For Receivers	NET
No.	No.	Covering:	EACH
05515J	250-43-1	26 to 30 Mc.	59.95
05516J	250-43-2*	28 to 30 Mc.	
05517J	250-43-3	14 to 18 Mc.	

FACTORY-WIRED MODELS 0 \$ 5 | 8J | 250-43-12 | 26 to 30 Mc. | 89.95 | 0 \$ 5 | 9J | 250-43-22* | 28 to 30 Mc. | 89.95 | 0 \$ 5 20J | 250-43-32 | 14 to 18 Mc. | B ROTARY INDUCTORS. Permit extreme flexibility in RF amplifiers. In single-ended types, will tune all frequencies from 1,5 to 30 mc. In antenna loading or phasing circuits, furnish large value of continuously variable inductance. 11/2 lbs.

Stock No.	Туре	Size	Max. μh	NET EACH
60 H 373	229-202	4 % x2 1/4 x2 1/6" 5 16 x2 1/4 x2 1/6" 7 1/6 x2 1/4 x2 1/6"	18	10.75 11.75 12.50

MODEL 250-37 DIRECTIONAL COUPLER. Monitors SWR /relative power in 52-ohm lines. Rated 1 kw, 1.7-150 mc. Use with multimeter, or indicator be-SO-239 fittings. 61/4x25/4". 2 lbs.

low. SO-239 fittings. 0NET 11.75

D MODEL 250-38 INDICATOR. 0-100 µa meter reads SWR /relative power. 43/x4x41/4". 4 lbs 90 S 522. \$5 Monthly NET 25.00

MODEL 250-42-1. ATTENUATOR. T-pad providing 6-db attenuation. Max. dissipation, 45 watts (120 w. with 75-w. bulb); max. input, 60 w. 350-ohm SO-239 sockets. 31/x41/x91/2". 2 lbs.

90 S 523. \$5 Monthly NET 21.50

MODEL 250-42-3. Similar to above, but handles 70 w.

F MODEL 250-20 LOW-PASS FILTER. TVI filte with 4 shielded sections. Handles over 1 kw 75-db attenuation of harmonics and spurious signals above 54 mc. Insertion loss less than ¼ db. 52-ohm impedance. SO-239 fittings. 9x25.4". 3 lbs.

90 S 525..... NET 14.95

MODEL 250-28 CRYSTAL CALIBRATOR. Tiny frequency standard to produce 100-kc check points up to 55 mc. Has trimmer for zero-beating WWV, With 6BH6 tube, crystal, cable, extension leads. 3%x2½x1½". Requires 6.3 v. at .15 amp and 150.300 v. at 2 ma. Wt., 1 lb.

90 S 526. Factory Wired...... NET 18.95

MODEL 250-23-3 275-WATT "MATCHBOX."
For 80-10 meters. Matches 25-1500 ohm balanced antennas and 25-3000 ohm unbalanced antennas. Has

250-30-3. Above, for 1 kw CW /AM and 3 kw PEP input. Takes balanced lines from 50-1500 ohms, unbalanced

from 50-2000 ohms. 10 1/4x17 1/4x12 1/2". 27 lbs. 90 SU 528J. \$8 Monthly..........NET

MODEL 250-23. Same as 250-23-3, but less directional coupler and indicator. Wt., 11 lbs. 90 SX 529J. \$5 Monthly.......NET 64.95



HAMMARLUND - Since 1910, World-Famous Manufacture



MODEL HX-50 NEW! FILTER-TYPE TRANSMITTER

• 130 W. PEP Input

• 80-10 Meters

• 3-Element Pi-Net

\$18 monthly

· Highly Stable

Loaded with design extras, the compact HX-50 offers coverage of the Ham bands 80-10 meters at modest cost. Rated at 130 watts PEP and CW input. Output is 50-65 w. with 90 w. DC input on SSB/CW; AM is 25% of above values. Overlap of internal VFO ranges provided by crystal or external VFO operation. Stability, less than 250 cps after warmup, internal VFO range, 5950-6550 kc; other oscillators crystal controlled. At least 50 db suppression of carrier and sideband. Bandpass couplers in low-level stages. Bandwidth: 2.7 kc at 6 db down. Antenna changeover, VOX, anti-trip, many other features. Size, 91/8x

SLOT-FILTER SELECTIVITY PLUS 6-STEP CRYSTAL FILTER

Achieve Peak Performance on SSB

NEW!

MODEL HXL-1 LINEAR AMPLIFIER

• 1 Kw PEP Input

• 80-10 Meters

• 3-Element Pi-Net

• Matches HX-50 \$18 monthly

Extreme simplicity of design, rugged construction and peak-power performance combine to keynote this outstanding new linear! A splendid mate for the HX-50 at left, the HXL-1 gives full SSB /CW /AM coverage of the 80 through 10-meter Ham bands, with provision for 160 meters when used with accessory kit. Efficient grounded-grid circuit uses high-dissipation output tube and adjustable 3-element pi-network. Panel meter reads PA grid/plate and relative RF power output. Has standby bias supply for complete cut-off during receive; relays for "exciter only" or

*HQ-170AC RECEIV

• Triple Conversion

• 160 to 6 Meters

• 60-db Slot Filter

Just-announced model of this renowned Ham-b receiver with improved electrical /mechanical sta ity, socket for 6-meter preselector, and 144-mc (brations for any 2-meter converter having 50-54 output. Covers 160-6 meter Ham bands with 7 se tivity positions, slot filter, product detector, sel able AVC and USB/LSB, 100-kc calibrator, "A Response," clock-timer. Dual conversion, 160

ACCESSORY NOISE SILENCER. For HQ-170

"TRADE UP" TO THE RIG OF YOUR CHOICE

Why wait longer? Write today and tell us about your trade-in. You'll get a terrific deal!



100 Watts PEP on 5 Bands

★★HQ-145XC RECEIVER

A quality receiver for the Amateur who wants fine general-coverage and Ham-band reception, and for the critical shortwave listener who demands top performance. Sensitive superhet circuit covers 540 to 30 mc in 4 bands, with dual conversion from 10 to 30 mc for high image rejection. Calibrated electrical bandspread for 80 through 10-meter Ham bands with CB channel markings and 0-100 logging scale.

Six-position crystal filter plus adjustable 60-db slot filter. Sensitivity, 1.75 μv AM and .6 μv CW for 10 db S/N. Provision for crystal-controlled reception on 1 frequency for WWV, CB channel, etc. (Less crystal.)

Has ANL, automatic audio passband control. S meter, temperature-compensated variable BFO, crystal-controlled 2nd converter, AVC, clock-timer. 101/x19x13". Less S-200 speaker (right). For 105-125 v., 50-60 cycle AC. Wt., 42 lbs. 90 SU 550-J. \$14 Monthly.........NET 279.00

MODEL XC-100 PLUG-IN CRYSTAL CALIBRATOR. Provides 100-kc markers. For above, 12 oz. NET 15.95 90 S 552..

HX-500 TRANSMITTER

An excellent example of careful engineering, the HX-500 transmitter provides complete facilities for SSB, CW, NBFM, DSB (AM), and FSK for RTTY and keying identification. Power output is 100 watts on SSB (PEP) and CW, 25 watts on AM. VFO covers all Amateur bands 80 through 10 meters in 8-500-kc segments; dial calibrations readable to 200 cps or better. After warm-up, stability is better than 100 cps.

All modulation is accomplished at 60 cps for superior stability and rejection of unwanted sideband. Special ferrite tuning core eliminates need for temperature-compensating components in oscillator circuit. Carrier suppression and unwanted sideband suppression are 50 db or better. Spurious frequen-cies are down 50 db or better. 3rd and 5th order distortion down 30 db or better.

Also has automatic audio level control, antenna changeover relay, 2-6146s in final with 50-ohm pinetwork, VOX and anti-trip, etc. Completely TVI-proofed. With 16 tubes, 4 rectifiers, VR, and 8 het-erodyning crystals. Size, 11/x19/x16%". For 105-125 v., 50-60 cycle AC. Wt., 95 lbs. 90 SZ 553-J. No Money Down....NET 695.00

* *HQ-180C RECEIVER

Precision communications receiver combining t SSB reception with general coverage—has every finement for superb SSB, CW and AM performan Covers 540 kc to 30 mc in 6 ranges with 10 through meter Ham bandspread. Triple conversion, 7.85 to mc; dual conversion below. Average sensitivi 1½ μν AM or ½ μν CW for 10 db S/N.

.. NET 429.

MODEL HQ-180XE. Universal model with provisi

MODEL S-200 SPEAKER, Matches HQ-145, HQ-1



*HQ-110AC 7-BAND AMATEUR RECEIVER

Newest model of this popular, dual-conversion receiver designed just for the Ham. Now features improved electro-mechanical stability, accessory socket for 6-meter preselector, and calibrated 2-meter scale for any 2-meter converter having 50-54 mc output, Receives SSB, CW and AM with full calibrated coverage of the 160, 80, 40, 20, 15, 10 and 6-meter bands. Has "Auto-Response" circuit, Q multiplier, 100-kc crystal calibrator, separate linear detector for SSB/CW, crystalcontrolled 2nd converter, voltage-regulated and temperature-compensated HFO, ANL, clock-timer. Separate stable BFO for SSB and CW. Dual conversion, 6-40 meters. Sensitivity, 11/2 µv for 10 db S/N. 10 tubes; VR, rectifier. 97/4x161/2x91/6". FCDA No. R-16, Less speaker. For 110-120 v., 50-60 cycle AC, 31 lbs. 90 SU 657-J. \$13 Monthly.

90 SU 658-J. HQ-110A. Above, less clock-timer. \$13 Monthly... NET 249.00 90 SX 659-J. S-100 SPEAKER. For HQ-110/HQ-100 series. 10 lbs. NET 14.95

**HQ-100AC GENERAL-COVERAGE RECEIVER

This latest version of the famous HQ-100C receiver brings you. Hammarlund quality at moderate cost. Covers 540 kc to 30 mc in 4 ranges with outstanding sensitivity, selectivity and stability for its class. "Auto-Response" circuit automatically adjusts audio bandwidth to suit receiving conditions. Independently controlled, continuously variable BFO and Q multiplier-permit simultaneous use of both. Selectivity variable from 100 cps to 3 kc. Calibrated electrical bandspread for 80 through 10-meter Ram bands, with CB channel markings and logging scale. Sensitivity, 1.75 μv for 10 db S /N. Voltage-regulated, temperature-compensated HFO for extra stability. Includes S meter reading to 40 db over, S-9, series-type ANL, AVC, clock-timer. With 8 tubes; VR tube, rectifier. 97/xx16/xx9//. FCDA No. NET 199.00

90 SU 661-J. HQ-100A. Above, less clock-timer. \$10 Monthly... NET 189.00

Complete 6-Band Mobile/Portable/Fixed Station





*MODEL PMR-8 RECEIVER

perfect mate for the AF-68 Trans-citer (right), the MR-8 double-conversion superhet offers standout ception at home or away! Covers the same 6 Ham inds—80, 40, 20, 15, 10 and 6 meters (50-52 mc)— us standard AM broadcast from 540 to 1650 kc. Has ystal-controlled 2nd converter for high stability. ne skirt selectivity achieved from 262-kc high-Q transformers—selectivity is 6 db down at 3 kc and db down at 12 kc. 1st IF, 2238 kc.

utstanding sensitivity and low-noise performance; ensitivity is 1/2 µv for 10 db quieting and 500 mw itput. The space-conserving PMR-8 also includes: ilibrated variable BFO with upper and lower side-and selection; delayed AVC; tuned RF stage; autoatic noise limiter; illuminated silde-rule dial; eadphone jack; and antenna input for 52 or 72-ohm able. Drift kept to minimum via temperature comlitages. Filament string for 6 or 12 voits.

ontrols: main tuning; BFO-sideband selector; RF ontrols: main tuning; BFO-sideband selector; RF
ain; audio gain; bandawitch; antenna trimmer; AMSB/CW switch; ANL switch. Tubes: 6DK6 RF
mp; 6BE6 1st converter; 6C4 local osciliator; 6BE6
nd converter/crystal osc; 6BJ6 IF amp; 6BJ7 deictor/AVC/noise limiter; 6AW8 BFO/1st audio
AQ5 audio output. Just 4/xs/x7". Less M-1070 or
I-1071 power supply (right), speaker. 11 lbs.
0 S 662-J. \$10 Monthly.......NET 189.50

Equipment Operates on 115 VAC at Home :





and on 6/12 VDC too!

MODEL AF-68 60-WATT "TRANS-CITER"

Compact unit which can serve as an exciter, speech amplifier, VFO, driver, or a complete low-powered 6-band transmitter—a superb companion for the PMR-8 and M-1070. One control bandswitches all stages for convenient and complete coverage of all Ham bands from 80 through 6 meters. Runs 60 watts maximum input to a 6146 power amplifler on both CW and AM phone. Built-in temperature-compensated VFO operates on 1.75 mc for 80 meters, and on 3.5 mc for the other 5 bands covered. Five-circuit meter provides illuminated readings of PA grid current (offon), plate voltage, modulator plate current, and final plate current. Uses coaxial connector and universal

pi-network output circuit to match a wide variety of impedances. VFO dial has separate calibrations for each band. Untuned crystal oscillator takes any crystal that will work straight through, double or quadruple to desired operating frequency. Socket for 2 crystals. (8 or 12-mc crystals recommended for 6 meters). Has switches for VFO /crystal, VFO spotting, bands, meter functions, AM /CW, and high or low-impedance mike. Many other extrasl Attractively styled cabinet, in charcoal with chrome trim, is only 6½x13½x7½". Less power supply, cable and connectors, below. Wt., 20 lbs.

90 SU 663-J. \$11 Monthly........NET 205.00

MODEL M-1070 POWER SUPPLY AND CABLES

M-1070 POWER SUPPLY. Rugged, factory-wired unit for mobile, portable and fixed use-will easily 90 S 252. WH-6 POWER CABLE AND CONNECTOR ASSEMBLY, 9 feet long. Connects PMR-8 and AF-68 to M-1070 /M-1071.Wt., 2 lbs.... NET 16.00

90 S 255. WH-20. Identical to above, but 23 feet in length. NET 24.00

Amateur Equipment Values by knight-kit, R. L. Drake,



DRAKE 2-B COMMUNICATIONS RECEIVER

- Superior Ham-Band Reception at a Modest Price
- Passband Tuner—.5/2.1/3.6 kc Switchable Bandwidths
- Stability Plus—Drift Under 100 cps After Warmup

Only recently introduced, this improved version of the precision Drake 2-A has already earned tremendous acclaim from critical Amateurs everywhere! Has all the qualities of its predecessor plus many more—including selective movable-passband tuner with 3 switchable bandwidths, speeded-up AVC for CW monitoring and fast break-in operation, series-diode noise limiter for AM, and power supply for 120/240 v. AC. Steep-sided bandwidths of 0.5, 2.1 and 3.6 kc at 6 db down offer peak SSB, AM and CW reception with full RF gain, complete AVC action and accurate S-meter readings—selectivity only 2.75 kc at 60 db down. Covers 3.5-4.1, 6.9-7.5, 13.9-14.5, 20.9-21.5 and 28.5-29.1 mc with 3 crystals supplied. Low-frequency VFO and triple-conversion circult with crystal-controlled 1st converter maintain superb stability. Drift is less than 400 cps from cold start, less than 100 cps after warmup. Sensitivity,



MODEL DI-1 RF DISTORTION INDICATOR

Quality scope to check linearity and carrier/sideband suppression of SSB exciters, linear amplifiers, etc. Displays trapezoid and envelope patterns. Useful as AM percentage indicator. Has 3" CRT with full mu-metal shield, green filter, sealed bezel. Handles up to 2 kw, 160 through 6 meters. Built-in low and highvoltage hum-free power supply. Rear connections for 50-70 ohm coax and all functions. Model TT-1 (optional accessory, below) supplies signal for two-tone linearity test. For 115 v., 60 cycle AC. Wt., 15 lbs.

90 SX 187-J. TT-1 TWO-TONE OSCILLATOR. Plugs into above.

MODEL LA-400-C LINEAR AMPLIFIER

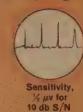
Popular grounded-grid linear amplifier offering up to 800 watts PEP input at minimum cost. Utilizes straightforward design, modern styling and highest quality components throughout. May be driven up to 800 w. PEP with 100 w. exciters; up to 500 w. Input with 30 w. exciters. For SSB, DSB, linear AM, CW, PM and FSK operation. Completely bandswitched unit covers all Ham bands 80 through 10 meters. Has 4 modified 1625 tubes, 3-element pl-network, multipurpose panel meter, and built-in heavy-duty power supply. TVI-suppressed and parasitic-free. Gray crinkle cabinet, 9x15x10 ½". For 105-125 v., 50-60 cycle AC. Wt., 52 lbs.

A FEW OF ITS STANDOUT FEATURES











Fast and Slow



Accurate Dial Calibrations



5 Extra 600-kc Ranges

ACCESSORIES



Series-Diode Noise Limiter

455 KC Triple

Conversion

MODEL 2-BQ COMBINATION Q MULTIPLIER AND DELUXE 6" SPEAKER. Q multiplier provides single-signal CW reception, notches QRM. 5½ lbs. 90 S 172. NET 39.95

MODEL 2-AC 100-KC CRYSTAL CALIBRATOR. Plugs Into Drake 2-B receiverno soldering or wiring. Gives clear marker signal every 100 kc up to 30 mc. Con trolled by front-panel slide switch on receiver. Wt., 5 oz.

90 S 182. MODEL 2-BS MATCHING 6" SPEAKER. 41/2 lbs...... NET 16.95

NEW knight-kit R-100A



**R-100A COMMUNICATIONS RECEIVER KIT

The R-100A has all the extras that made the R-100 a DX-getting favorite with the The R-100A has all the extras that made the R-100 a DX-getting favorite with the Ham fraternity, plus up-to-the-minute panel and cabinet styling. Sensitivity is 30 to 1½ µv throughout the shortwave spectrum, with full coverage from 540 kc to 3 mc. Has bandspread for the 80-10 meter Ham bands—tunes 160, too. Built-in C multiplier works on all modes—CW, AM and SSB—to peak desired signal or nul interference. Selectivity is continuously variable from 300 cps to 4½ kc; 60-dt notch really takes out QRMI Use of printed circuitry assures stable, reliable operation and easy assembly. Other highlights: exalted BFO for SSB, delayed AVC, ANL, printed-circuit bandswitch, and provision for building-in accessory crystal calibrator and S meter kits. With cabinet, tubes, all parts, wire, solder and step-by-step instructions. Less speaker. Wt., 31 lbs. See this catalog's Knight-Kit section for details on this and other value-plus Amateur Radio kits. section for details on this and other value-plus Amateur Radio kits.

83 YU 406. \$5 Monthly... 83 Y 423-J. S-METER KIT. Wt., 12 oz...ONLY 12.95 83 Y 424-J. S-8A MATCHING SPEAKER KIT. Wt., 31/2 lbs.... ONLY 9.95

P&H, Eico, Mosley, Sonar, and Barker & Williamson

POPULAR FICO AMATEUR KITS

65 Watts on Phone with Add-On 730-K Modulator-Driver, Below



720-K TRANSMITTER KIT

is handsomely styled 90-watt CW transmitter kit just the rig for seasoned veteran and newcomer ke! Covers 80, 40, 20, 15 and 10 meters with handy s-knob bandswitching. Sealed cabinet and careful passing and filtering provide effective TVI supession. Works AM phone when used with Model

K accessory kit, below. Employs crystal-conlied 6CL6 oscillator, 6AQ5 buffer-multiplier and

if final amplifier protected by 6AQ5 clamper tube. s built-in keying, pi-network output, and panel ter. 6x15x9". With all instructions. For 110-120 v., cycle AC. Wt., 27 lbs.

SU 287J. Kit Form. \$5 Monthly.... NET 79.95 SU 288J. Wired. \$6 Monthly..... NET 119.95



723-K TRANSMITTER KIT

A fine low-cost 60-watt CW transmitter for the beginning or advanced operator. Covers the 80, 40, 20, 15 and 10-meter bands, running 60 watts input to a 6DQ6B neutralized final amplifier. Fully bandswitched, unit uses time-proven circuitry and up-to-the-minute design. 6CL6 oscillator is electroncoupled Colpitts type noted for low crystal heating and minimized effect of plate loading on frequency. Panel meter reads grid and plate circuit of final. Works AM phone at 50 watts input with optional Model 730-K, below. TVI suppressed. Output Impedance, 50-1000 ohms. 6x8 ½x11 ¼". With instructions. For 110-120 v., 60 cycle AC. Wt., 16 lbs.

90 SX 289J. Kit Form. \$5 Monthly. . . NET 49.95 90 SX 290J. Wired. \$5 Monthly. NET 79.95

730-K UNIVERSAL MODULATOR-DRIVER KIT

ot illus.) A versatile high-level unit at a very dest price. Ideal for use with CW kits above—il plate-modulate any transmitter having RF input to 100 watts. Delivers 50 watts of undistorted dio. Multi-impedance output. Inputs for crystal or namic mike and phone patch. Unique overmodulation indicator. With instructions. Less cover, below. For 110-120 v., 60 cycle AC. 21 lbs. 90 SU 291 J. Kit Form. \$5 Monthly...NET 49.95

90 SU 292J. Wired. \$5 Monthly...... NET 79.95 90 S 293. COVER. For above, 5 lbs. ... NET 4.50

★MOSLEY MODEL CM-1 Dual-Conversion Receiver



OWN IT FOR JUST \$10 MONTHLY

Now . . . this famed antenna manufacturer brings you quality Amateur-band reception at a price within everyone's reach! Covers the 80-10 meter bands with dual conversion, crystal-controlled first oscillator, selectivity of $2\frac{1}{2}$ kc at -6 db and $\frac{1}{2}$ μ v sensitivity for 10 db S/N. Full 12" of bandspread on each band; 36" (3 segments) on 10 meters. Tunes WWV on 15 mc.

Functional panel layout and compact design will compliment any station. Less than 500 cps drift after warmup. S meter functions with BFO on or off. Has diode and product detectors, ANL, 35 db image/ IF rejection, 5 dual-purpose tubes; 4 diodes. Just 7½x10½x8". Less speaker. For 110-120

v., 50-60 cycle AC. 14 ibs. 90 SX 171J. \$10 Monthly. NET 182.70

96 S 189. CMS-1 SPEAKER. 4 lbs. 16.95

NEW! SONAR Mono-Bander SSB Rigs

Selection of new one-band SSB transceivers for both mobile and fixed-Station use. Each Mono-bander is rated at 180 watts PEP and 165 watts CW input. Employs Collins mechanical filter and new RCA 7360 tube in balanced modulator circuit, for 2.1 kc selectivity, 50 db unwanted sideband suppression and 60 db carrier suppression. Receiver sensitivity, 1 uv for 10 db S/N. Also has: USB/LSB selection; VOX, anti-VOX and push-to-talk; automatic modulation control; full-time AVC; 4-way meter function. Compact 5\%x11\%x11\%'. With crystal for 200-kc coverage. Less power supplies and accessories, below. 10-meter model available on special order. Av. wt., 10 lbs. \$18 Monthly.

90 SU 530J. 80-Meter Model. 90 SU 532J. 20-Meter Model EA 90 SU 531 J. 40-Meter Model. 90 SU 533 J. 15-Meter Model 395.00 90 SU 534J. 117/220 VAC POWER SUPPLY w/built-in Speaker.

90 SU 535J. 12 VDC POWER SUPPLY. Wt., 14 lbs.... NET 135.00

90 SU 538, CERAMIC MIKE. With coil-cord, plug. 1 ib. NET 17.90

NFW! B&W 6100 TRANSMITTER



All-new from Barker & Williamson: a transmitter engineered and built to give the discriminating Amateur licensee precision SSB, CW and AM operation! It employs a crystal-controlled frequency synthesizer, a crystal lattice filter, a novel ALC circuit and other highly desirable features. Frequency coverage: 3.5-4.1; 7.0-8.0; 14.0-15.0; 21.0-22.0; 28.0-29.0 and 29.0-30.0 mc. Maximum power inputs: 180 w. PEP on SSB, 180 w. DC on CW, 90 w. on AM linear. Unique B&W frequency synthesizer produces stability normally found only in costly commercial systems—temperature-matched crystals control the frequency, resulting in virtually driftless operation (no free running oscillators are used).

Crystal lattice filter method of sideband generation achieves excellent sideband suppression. ALC with adjustable threshold is applied to 2 stages, preventing overdrive of the output stage or power amplifier; gives 10 db of voice compression. Calibrations are on 3 digital dials for hundreds, tens and units of kc—"units" dial is continuously variable, with accuracy better than ±1 kc on any band. Drift: 100 cps or less during 15-min. warmup; ±25 cps any hour thereafter.

Instant choice of USB/LSB without retuning; also choice of VOX, push-to-talk or manual. Effective grid-block keying circuit for clean, chirpless CW without backwave. Distortion products, sideband/carrier suppression, spurious mixture signals, harmonics, and residual hum/noise are 40 to 55 db down. Parallel 6146s in final. Solid-stage rectifiers in built-in power supplies for fine regulation and reduced heat dissipation. Ideal for use either as a complete 100-wait transmitter or as a driver for a high-powered grounded-grid final. Table-top cabinet 91/x 183/x16". For 105-125 v., 60 cycle AC. Wt., 60 lbs.



Selected Amateur VHF Equipment

LINCOLN 6-METER TRANSCEIVER VALUE!

CN

Technicians, Generals, new Hams...get in on the 6-meter fun this easy, Inexpensive way! Allied's own Lincoln comes complete—all set to go, with mike, AC power supply and 50.2-mc crystal. Vernier tuning superhet covers entire band from 50 to 54 mc. Transmitter runs 7 watts input to fully modulated 6CX8 final amplifier, with tunable output network to match any 30-100 ohm antenna. Also has: front-panel socket for 3rd-overtone crystals, built-in TVI filter, adjustable noise limiter, and neon modulation indi-cator. Tubes: 6U8A RF amplifier/mixer; 6U8A oscillator /IF; 6AL5 detector /ANL; 6CX8 crystal

oscillator/RF output; 12AX5 AF/mike ampfier; 6V6GT AF output/modulator. Compa good-looking cabinet is just 5½x16½x6½". Suplied with mike, 50.2-mc crystal and built power supply for 110-120 v., 60 cycle AC. I power supplies also available for mobile we (see below). Shpg. wt., 11 lbs.

90 SU 678-J. \$5 Monthly....ONLY 57.4



POLY-COMM "6" TRANSCEIVER

A new Polytronics 6-meter station with ceramic mike, fixed /mobile supply and under-dash mtg. bracket! "Mini-load" VFO maintains minimum drift. Dual-conversion receiver tunes 49.75 to 54.25 mc-2 nuvistor RF stages give .1- μ v sensitivity and 4-db noise figure. 10 watts output. 5x11x10". For 115 v., 60

90 SU 682-J. 115-VAC MODEL NET 299.50

POLY-COMM "2". Two-meter version for 115 v., 60 cycle AC and 12 v. DC, 6 watts output. 96 SU 663-J. \$16 Monthly......NET 339.50

90 SU 684-J. 115-VAC MODEL....NET 319.50

POLY-COMM "62-B" TRANSCEIVER. Covers 6 and

CLEGG 99'er TRANSCEIVER

A top-notch 6-meter transceiver for both fixed and mobile work. Double-conversion superhet receiver utilizes 10 tuned circuits for outstanding sensitivity and selectivity with freedom from images and cross-modulation. High-level plate-screen modulated 7558 final amplifier works "straight through". Calibrated S meter accurately indicates signal strengths-also serves as tune-up meter.

Front-panel spot switch indicates transmitter frequency. Also has: ultra-stable crystal oscillator, flexible pi-network tank circuit, 5-to-1 vernier tuning, noise limiter, 100% modulation without splatter, TVI suppression. Overall noise figure, less than $4\frac{1}{2}$ db. Its 9 tubes and rectifier offer 14-tube performance! Use with 8, 12, 16 or 24-mc crystals, or external

AMECO VHF EQUIPMENT

PS-1W

MODEL CN-50W 6-METER CONVERTER. Delu converter employs 3 RCA nuvistors for extremely lo noise figure and high gain. 2x2½x6¾". Require 100-150 v. @ 30 ma and 6.3 v @ 1 amp. (See PS-1)

MODEL CN-144W 2-METER CONVERTER. Same a CN-50W, but for 2-meter band. 2 lbs. \$5 Month!

90 S 688. 14-18 Mc OutputNETNET 44.9

90 S 689. 30.5-34.5 Mc Output......NET 44.8 MODEL CN-220W 11/4-METER CONVERTER, Show

90 S 691. 30,5-34.5 Mc Output. NET 49.8

Other IF outputs available on special order.

MODEL PV-50 6-METER PREAMP. Nuvistor preami When used with present converter or receiver, ca improve sensitivity and noise figure considerable Requires 100-150 v. @ 10 ma and 6.3 v. @ 130 mm Size, 2/x/2x3//". Wt., 1 lb.

.....NET 13.9 MODEL PV-144 2-METER PREAMP. Wt., 1 lb. 90 S 693. NET 13.9 90 S 693.

MODEL PV-220 1%-METER PREAMP. Wt., 1 lb. 90 S 694.

MODEL PS-1W POWER SUPPLY. Excellent for us

TECRAFT VHF GEAR

MODEL TR-20/50 TRANSMITTER. (Not illus.). 20-25 watt transmitter for 6 meters. Uses 8-mc crys tals in Pierce oscillator—no tricky overtone circuits No frequency multiplication in final amplifier stag for reduction of radiated harmonics. Has 6AU oscillator, 5763 buffer-doubler, 6360 amplifier, 12AX

MODEL TR-20 /144 TRANSMITTER. Same as above

MODEL PTR-2 POWER SUPPLY. For use wit Tecraft transmitters above; also Tecraft converters Provides 6.3 volts @ 6 amps, 6.3 volts @ 4 amps, an 250 volts DC @ 250 ma. Has send receive switch Size, 53/x93/x6". For 110-120 v., 60 cycle AC. Wt. 17 lbs. 90 S 699. \$5 Monthly......NET 39.\$4

P&HTRANSMITTING CONVERTER

MODEL 6-150. Avoid costly equipment duplication by "going VHF" this easy way—feed the 20-meter output of your SSB, AM or CW exciter into this unit for up to 175 w. PEP on 6 meters. May be crystal or VFO controlled, depending on exciter. Resistive "pi-pad" and switchable "half-power pad" permit use with 5 to 100-watt exciters. Input to crossneutralized push-pull 8117 output tube: 175 w. PEP SSB, 165 w. CW, 90 w. linear AM. Copper-plated chassis and shielding. Output jack furnishes oscillator signal injection for receiving converter. Has

MODEL 2-150. Above, for 2-meter band. 90 SX 274-J. \$16 Monthly......NET 329.95

NATIONAL "VFO-62"

A deluxe, self-powered 6 and 2-meter VFO designed for maximum stability and versatility. Use with transmitters having 8-mc oscillator circuits for full coverage of both the 50 and 144-mc bands. Frequency stability is better than 0.1% from cold start, and better than 0.005% after 30-minute warmup. Plugs into crystal socket of your transmitter. Vernier dial drive provides precise tuning.

Complete internal shielding eliminates all hand effects. Front-panel socket accepts 1-mc calibration crystal or your favorite transmitting crystal. Proviaion for remote standby-operate control. Housed in rugged gray plastic cabinet for maximum mechanical stability. Extremely low power consumption. Size, a compact $5 \frac{1}{2} x 6 \frac{1}{2} x 5 \frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Wt., 6 lbs. 90 S 696. \$5 Monthly......NET 49.95

Ham Station Accessories from Leading Manufacturers



AMECO LN-2 LOW-PASS FILTER. Single-section filter handles up to 200 watts RF. For 52 72-ohm coax. Has 2—SO-239 connectors and racket. 4%x2%x13//. Wt., 1 lb. .: ,.. NET 3.75

B DRAKE TV-1000-LP LOW-PASS FILTER. Rated kw RF through 10 meters; 200 watts on 6 neters. Ideal for 6 meters—cutoff frequency is 52 mc.

or 52-ohm coax.Wt., 2 lbs. DRAKE TV-100-LP. Above, rated at 100 watts

10; 20 watts on 6. Wt., 1 lb.

BUD LF-601A LOW-PASS FILTER. 1 kw rating. For 52 or 72-ohm lines. Cutoff, 42 mc. Minimum attenuation: 85 db above 54 mc; 93 db above 70 mc. 1/4". Wt., 21/2 lbs.

12x2 ½x2 ½". 39 \$ 457.NET 16.90

D B&W 425 LOW-PASS FILTER. 1 kw rating. Two "M" end sections; 4 constant-K center sections.

55 db attenuation on TV channels; 100 db on channel 2. SO-239 coax fittings. 11x3x2". For 52-ohm lines.

19 \$ 458. NET 17.10

NET 17.10

B&W 426. Above, for 72-ohm lines. B9 S 459.

E DRAKE TV-300-HP HIGH-PASS FILTER, For any TV set having 300-ohm antenna input and 20 or 44-mc IFs. Attenuation, more than 40 db through 52 mc-highly effective on Amateur 6-meter interference. fron-core, bifilar coils. Fully shielded. Size, 2½x2½x1½°, Wt., 8 oz.

91 C 160. NET 3.97

SWR INDICATORS

261 "Micromatch"

F DRAKE TV-300-FMT FM-BAND REJECTION FILTER. New unit rejects TV interference caused by FM stations operating from 88 to 108 mc. Reduces overload problems and "beats" between FM/TV stations. For 300-ohm VHF TV sets. Easy to attach and adjust. 2 ½x2 ½x1 ½". Wt., 8 oz.

G B&W 424 LOW-PASS FILTER. New low-cost 3-section filter for low-power Amateur transmitters. Rating, 100 watts maximum. Attenuation, at least 60 db above 35 mc and throughout TV and FM channels. Also reduces spurious frequencies in grid circuit when installed between exciter and high-power amplifier. Consists of 2 "M" sections and 1 constant-K center section. Range, 1.5 to 30 mc. Impedance, 52 or 72 ohms (reversible). Has SO-239 fittings. 5x2x1 ¾". Wt., 1½ lbs.

BUD HF-600 HIGH-PASS FILTER. Highly effective filter for TV sets with 300-ohm inputs. Rejects all signals below 42 mc. Easy to attach. 31/4x

2 1/2 x1 1/2". Wt., 6 oz. 89 \$ 462.

J AMECO HP-45 HIGH-PASS FILTER. Attenuates all signals below 45 mc. Provides 40 db attenua-tion 14 mc and below; 20 db at 10 meters. Easily attached to any TV set with 300-ohm antenna input. ". Wt., 3 oz.

AMECO HPX-45 HIGH-PASS FILTER. (Not ilius.) Deluxe 2-section model of above. Offers 80 db attenuation at 14 mc and below; 40 db at 10 meters. Negligible insertion loss. 2½x2x1½". 5 oz. NET 2 25



M. C. JONES 261 "MICROMATCH" ANTENNA

262 Indicator

M. C. JONES 262 INDICATOR, Measures VSWR and relative power, forward or reflected, to 1000 watts. Sensitivity adjustable continuously from about 10 watts full scale to 1000 watts full scale. 4 1/1 x 4 1/1 x 4 9/1 ". Wt., 2 ibs. 89 S 466.

NET 14.50

CESCO CM-52 "REFLECTOMETER." Measures SWR on 52-ohm transmission lines. For continuous line insertion at powers from 25 to 1000 watts input.
Range, 3 to 200 mc. Sensitive 0-100 µa meter calibrated directly in SWR. Less than 1 db loss at 30 mc.
Works with 10 watts at 7 mc and up; 5 watts at 100 mc and up. Has SO-239 connectors. 51/x3x21/6".

CESCO CM-75 "REFLECTOMETER." For 75 ohms. 9 S 468. \$5 Monthly.....NET 29.95 AMECO CD-1 CONELRAD MONITOR. A low-cost unit for converting any receiver having AVC into an effective Conelrad alarm system. Loss of broadcast station carrier removes AVC from trigger tube, causing a clear warning tone to be sounded in the receiver. Function switch mutes radio for monitoring. Easy to install—no leads in radio to cut. Size, 3½x 6½x2°. For 110-120 v., 50-60 cycle AC. Shpg. wt., 2½ Valuable station accessory.

ALLIED VINYL EQUIPMENT COVERS. Premiumquality covers to protect Amateur equipment from dust, moisture and tampering. Minimize mainte nance problems, keep gear looking like new. Of beautiful 8-gauge vinyl plastic. Extra-strong seams bound and tested—won't yellow or crack.

TYPE AE-12. Fits S-85, SX-99, SX-96, SX-100, SX-111, SX-110, S-106 and other equipment not exceeding 8x18%x10" (HWD). Wt., 6 oz. 89 S 470.

TYPE AE-13. Fits HQ-170, HQ-180, HQ-145, NC-300, NC-303 and any other equipment not exceeding 11x19x14 % (HWD). Wt., 6 oz. NET 1.95

NEW MASTERCRAFTERS 7112 24-HOUR DESK, WALL CLOCK. Can be hung on walf or placed on desk. Ten-minute timer signals you to sign your call. has face-plate for call and polar projection to tell time anywhere. Lgth., 9 ½". U. L. Approved movement for 110-120 v., 60 cycle AC. Wt., 1½ lbs.

89 SX 450. Price includes F.E.T.....NET 12.24

PENNWOOD 100-24H DIRECT-READING CLOCK Attractive 24-hour desk clock—shows time directly in numerals. In ebony plastic case. Size, 4x7%x4". For 110-120 v., 60 cycle AC. Wt., 3 lbs.

89 SX 474. Price Includes F.E.T..... NET 16.34

89 S 475. MODEL 124. Above, with call reminder. Buzzes every 10 minutes...

MASTERCRAFTERS 191 WORLD CLOCK. Top-value 24-hour wall clock. South polar map projec-tion shows time anywhere. Chrome-plated case. 8" dia. For 110-120 v., 60 cycle AC. Wt., 1½ ibs. 89 S 472. Price Includes F.E.T......

MASTERCRAFTERS 2324 WALL CLOCK. 24-hour clock with red 2nd hand, 13% black case. U. L. Approved. For 110-120 v., 60 cycle AC: 5 lbs. 30 SX 147. Price includes F.E.T......NET 9.97

90 SX 179. Above, in chrome case. .. NET 11.97

NEW PENNWOOD 920-24H DIRECT-READING CLOCK. 24-hour type. Staintess steel case, walnut ends, 3/x7/x3/*. U. L. Approved movement for 110-120 v., 60 cycle AC. Wt., 3 lbs. 89 S 476. Price includes F.E.T. NET 24.50

HALLICRAFTERS S-METER KIT



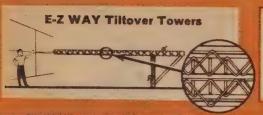
Easy-to-install S meter for panel mounting. For use with Hallicrafters S-40B, S-20R, S-40A, SX-62, S-77, S-77A, S-85, S-107, S-108 as well as many other recelvers. Can be installed in any RF or iF stage with AVCaction.3 1/4 x 2 3/1

meter has black dial with white markings.

Meter has 2 scales: microvolt scale calibrated from 0-1000K and S-unit scale calibrated to 80 db over S9 Requires 2 ½"-dia. round hole for meter barrel and four ½" holes for mtg. studs. Can be separately mounted in individual meter case (see catalog index). Kit consists of a 5.0-milliampere meter, 500-ohm pot for electrical zero-set, one 82-ohm ½-watt 10% resistor, one 330-ohm ½-watt resistor and easy instructions. Excellent for earlier model receivers lacking built-in S meters, Wt., 1 lb.

89 S 473. NET 12.00

Towers, Rotators, Antennas and Accessories





These famed E-Z Way antenna towers crank way up to snag DX, yet can be easily tilted over for access to array when adjustments are necessary. Sturdily constructed of heavy-wall high-tensile steel tubing with solid steel rod and continuous diagonal bracing. Electrically arc welded throughout. Light-weight and strong—withstand winds of very high velocity. Resist twist and torque caused by constant starting and stopping of rotor and beam. When used with ground-post mounting kits below, mount in 5' hole; require no concrete base or external guying. When used with building-attached kit below, anchor to side of an adjoining structure.

Will support a full-sized beam in winds of 60 mph or higher. Thrust bearing relieves rotor of all weight. All towers have hot-dipped galvanized surfaces except *Model RBS-40P, dip-painted surface. Accept CDR Ham-M rotor head (right). Other rotor heads are available on special order. Specify rotator to be used when ordering. Shipped by truck or rail F.O.B. Tampa, Fla., or Chicago, Ill., whichever is closer. Send full remittance on cash orders—no C.O.D. Towers are also available on Allied's Credit Fund Plan for no money down, low monthly payments, and up to 24 months to pay.

Stock No.	Model No.	Description	Ht. Ft.	Lbs.	NET EACH
89 CZ 828 89 CZ 836	RBS-40G RBS-50G	Std. duty 2 sec. Std. duty 2 sec. Std. duty 2 sec. Heavy-duty 3 sec.	41 51	190 235	169.50 209.50 279.50 410.00

E-Z WAY GROUND-POST AND SIDE-MOUNTING KITS

For use with E-Z Way tiltover antenna towers, above. GPK type ("Wonder Ground Post") ground-post kits contain all necessary equipment for mounting towers in the ground, without use of concrete base or guy wires. Type BAK-S40 building-attached kit is for mounting tower alongside a building.

Stock	Model	Use	Wt.,	NET
No.	No.	With	Lbs.	EACH
89 CZ 866 89 CZ 894 89 CZ 895 89 CZ 897	GPK-S40 GPK-S50	Any RBS Twr. RBS-40P or G RBS-50G RBX-60-3G		10,50 75.00 90.00 120.00

CDR HAM-M Rotator

- Handles Full-Size Beams
- Load Rating Over 1000 Lbs.
- Complete 360° Rotation
- Indicator Readable With Motor Off

AMECO FOLDED DIPOLE KITS

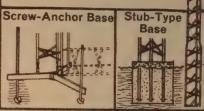
- Efficient/Low Loss
- Handle to 300 w.
- No Soldering
- Budget Priced
- With All Hardware

Each kit comes complete with low-loss twin-lead flat-top cut to desired frequency band, 75' of lead-in wire, and high-dielectric high-strength folded-dipole connector block. Excellent Impedance match assured. No soldering necessary—solderless terminals and hardware provided. Av. wt., 3½ lbs.

STOCK 14	o. I ype	Danus (Meters)	NEI LACH
89 SX 70			3.50
89 SX 70			3.95
89 SX 70			4.95
89 SX 71	7 FD-80	80	6.75

SPAULDING Strate-Tower Packaged Ham Towers

- All-Riveted Construction
- 100% Galvanized Steel
- Assembled 8-Ft. Sections
- Choice of Screw-Anchor or Std. Concrete Mtg.



SERIES HAX STANDARD TOWERS. Will support smaller-sized beam, rotator and clutch brake at sembly. Factory-assembled 8-ft. sections; all riveted construction. Heavy galvanized steel-withstand greater wind-loading than similar standar towers. Top of HAX-48 is 103/16" across one side a triangle; bottom, 25" across. Choice of tri-channes screw-anchor hinge-over base or stub base. HAX-types are free-standing towers with screw-anchor base—no concrete required. Others have bas stubs for mtg. in concrete. All types are package with rotor plate and top plate assembly. Less mas Shipped F.O.B. Frankfort, Ind. No C.O.D. orders please send full remittance to Allied. Shipping charge will be collected on delivery.

Sto	ck	No.	Type	Ht.	Sec.	Lbs.	NET
90 6 90 6 90 6 90 6		438 439 440 441 442	HAX-32B HAX-40B HAX-48B HAX-32 HAX-40 HAX-48	32' 40'	4 5 6 4 5 6	184 229 367 115 160 220	76.70 98.9 135.6 58.20 79.9 110.24

SERIES HDX HEAVY-DUTY TOWERS. Similar trabove but of extra-heavy galvanized steel—suppor full-sized beams. Strong, durable and dependable HDX-48 top is 12¾" (bottom 28") across one sid of triangle. HDX-B types have screw-anchor base others, base stubs for concrete mtg.

Stock	k No.	Type	Ht.	Sec.	Lbs.	NET
90 C 90 C 90 C	Z 445 Z 446 Z 447 Z 448	HDX-32B HDX-40B HDX-48B HDX-32 HDX-40 HDX-48	40'	4 5 6 4 5 6	212 361 430 143 206 280	99.2 137.8 172.9 76.7 107.1

TRANSMISSION LINE, COAXIAL FITTINGS, ANTENNA ACCESSORIES

CONSOLIDATED RG COAXIAL CABLE. Highly dependable coax, ideal for transmission lines and other RF applications. All types have black vinyl jacket, polyethylene dielectric, copper braid shield and bare copper conductor except RG11/U*, which has tinned copper conductor.

Stock No. Type Ohms Mmf/ft. O.D. Lbs.	OU ILK II.
49 W 104 RG8/U 52 29.5 .405" 1 49 W 109 RG11/U* 75 20.5 .405" 1 49 W 113 RG58/U 53.5 28.5 .195"	1/2 12¢ 11¢ 41/2¢

AMPHENOL LOW-LOSS COAXIAL CABLE. Types 621-111 and 621-715 similar to RG8/U and RG59/U respectively, but have polyfoam dielectric. Attenuation 15% less than RG types; polyfoam dielectric constant, 1.50.

49 W 339 621-715 73 17 .195" 2 .050	49 W 644 49 W 339		50 73	26.5 17	.405"	101/2	.156
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B AMPHENOL TYPE 214-076 TRANSMITTING TWIN-LINE. 300-ohm air-core tubular. 7/26 copper conductors. Rated at 1 kw RF. Shpg. wt., per 100 ft., 3½ lbs. Minimum order, 100-ft. coil.

C CESCO "DRI-FIT" COAXIAL DIPOLE CONNECTOR. A completely moisture-proof center connector ideal for use with dipole antennas. One-piece aluminum alloy construction. Handles RF power to maximum legal limits. For RG8, RG58, RG11 or RG59 coaxial cable, or 300-ohm twin lead. Can be easily installed in a few minutes. Has eye pull-up for inverted-V antennas. 2 oz.

NET 2.95



B&W CC-50 COAXIAL CONNECTOR. Weatherproof, watertight connector for half-wave doublets. Ruggedly constructed of aluminum with high-quality steatite insulation. Internal connections. With sealing cement, 1 lb. 75 S 593.

B&W 550-A MULTIPOSITION COAXIAL SWITCH. Inexpensive switch to eliminate bother of screwing and unscrewing coaxial connections. Instantly selects any of five transmitters, antennas, exciters, receivers, or other devices using 52 or 75-ohm lines. Handles up to 1 kw of modulated power with maximum crosstalk of -45 db at 30 mc. Wt., 2 lbs.

89 S 027. NET 8.25 89 S 028. B&W 551-A. Above, but 2-pole 2-position type. NET 7.95

CUSH CRAFT "BLITZ BUG" COAXIAL LIGHTNING ARRESTER. Protects equipment from lightning and prevents coax punctures due to high SWR. Gap principle eliminates static build-up. No effect on performance or SWR. Type 83 RF connectors. Install directly to equipment. 31/4" long. Wt., 4 oz. NET 3.95

Popular Hand, Semi-Automatic and Electronic Keys



MODEL 114-100-3 DELUXE HAND KEY. From E. F. Johnson, a precisionmade hand key of exceptionally high quality. Carefully tempered spring, and rdened and polished fine-point pivors provide lively action for smooth, easy nding. An excellent choice for the beginner and old-timer alike. Spring tension, ntact spacing and bearing pressure are easily adjustable. Base and binding sts have instrument lacquer coating to protect the highly attractive satin-brass ish of key. Contacts are of a special, extremely durable, pit-resistant alloy-ontact dia., .072". Shorting switch lets you close telegraph circuit or make justments to transmitter. Shpg. wt., 2 lbs.

ODEL 114-100 KEY. Same as above, but less shorting switch.

MODEL 114-320 STANDARD KEY. Telegraph key built to rigid specifications for smooth, comfortable sending. Large, chrome-plated key arm is suspended om hardened steel bearings. Large, ½ coin-silver contacts. Improved Navy-pe knob. Adjustable contact spacing and spring tension. Heavy brass connector incealed under base. Black die-cast base. Wt., 2 lbs.

MODEL 114-520 SPECIAL SEMI-AUTOMATIC KEY. A semi-automatic key for smooth, effortiess radio-telegraph sending. Contact spacing and sliding eight are easily adjustable to désired sending speed. Has circuit closing switch, uggedly constructed for long dependable use. Has \mathcal{K}'' coin-silver contacts, ardware and vibrator are heavily chrome-plated. Heavy, die-cast base is finished black wrinkle enamel. Rubbed feet prevent marring finished surfaces and keep

" in stationary position on desk. Shpg. wt., 4 lbs.

JOHNSON MODEL 114-501 DELUXE SEMI-AUTOMATIC KEY. A smoothly operating key with $\frac{1}{100}$ contacts. Arm, posts, circuit-closing switch and all achine parts are heavily chrome-plated. Adjustable from lowest to highest

ODEL 114-500 SEMI-AUTOMATIC KEY. Identical model to above, but with 1/4" ontacts and smart, black wrinkle steel base. Wt., 5 lbs.



"ORIGINAL" SEMI-AUTOMATIC KEY. A smooth, easy-working "bug" for

"CHAMPION" SEMI-AUTOMATIC KEY. Inexpensive key designed for smooth, easy operation. Mechanism chrome-plated. Base is attractive gray crackle finish. Less cord and wedge (below). Wt., 4 lbs.

G VIBROPLEX "PRESENTATION" SEMI-AUTOMATIC KEY. Beautifully designed key offers a lifetime of sending enjoyment. Features patented adjustable mainspring that provides extremely wide range of speed. Jeweled movement resists friction, maintains smoother, easier operation and prolongs life. Has polished chromium precision-machined parts mounted on a 24K gold-plated base top. Colorful red switch knob, finger and thumb pieces. Rubber feet on bottom prevent slipping and protect finishes. Less cord and wedge (below). Wt., 5-lbs.

89 S 942. \$5 Monthly......NET 33.95

STANDARD "BLUE RACER" SEMI-AUTOMATIC KEY, Small, lightweight and low-cost. Carefully built for extremely smooth operation. Chrome-plated mechanism. Gray base. Less cord and wedge (below). Wt., 4 lbs. 89 S 941. \$5 Monthly.....

DELUXE "BLUE RACER." Identical to "Standard Blue Racer" above, but has jeweled bearings and chrome base. Shpg. wt., 4 lbs. 89 S 943. \$5 Monthly....

CARRYING CASE. (Not illus.). Attractive carrying case for all Vibroplex semi-automatic keys above except "Blue Racer" models. Cloth-lined; protects key from dust and moisture. Styled in handsome, simulated black morocco. Has lock

CORD AND WEDGE SET. For use when 2 keys are wired in series. Wedge shorts out contacts of one key. Other key controls sending. Wt., 3 oz. 89 \$ 945.

SELECTED ELECTRONIC KEYING DEVICES

VIBROPLEX "Vibro-Keyer" Keying Mechanism

TANDARD MODEL. An excellent keying mechaism for use with either unit below or any other lectronic "bug," whether manufactured or home-uilt. Employs the famous Vibroplex trunion lever or smooth, effortless sending—greatly aids in in-reasing your speed and accuracy. Tension and pressure are fully adjustable. Also features sturdy nain frame, chrome-finished parts, large 3/4" contacts, and red finger and thumb pieces. Beautiful beige-colored base. Rubber feet protect finishes and prevent "walking." Base, 3½x4½". 3 lbs.

NET 17.95

DELUXE "VIBRO-KEYER." identical to above mod-

el, but has chrome-plated base.
89 S 947. \$5 Monthly.......NET 22.45

HAMMARLUND HK-1B Electronic Keyer

ully transistorized, battery-powered keyer with a 'personal touch" dot-dash control that takes the obot quality out of electronic sending. Its versatility and wide range of adjustable speeds make it ideal or both Amateur and professional operators. Can ne used as automatic, semi-automatic or straight sey. Has sidetone signal with adjustable volume for signal monitoring or code practice. Speed range,

approximately 8 to 50 wpm; variable dot-dash ratio. Relay contacts have high current-capacity, eliminating any possible transistor damage due to reversing

55 J 560. 22 1/2-V. BATTERY. 1 lb. NET 1.61

HALLICRAFTERS HA-1 "T.O." Electronic Keyer

An advanced electronic keyer permitting smooth, easy, clear transmission of code. Not only are dots and dashes self-completing, but perfectly proporloned space is always maintained between them. All timing circuits are electronic—not affected by relay variations. Calibrated In range 10-30 and 25-65 wpm. Has monitor with built-in speaker, and head-phone jack. Monitor may also be fed through receiver audio circuit. Includes speed range selector, moni-

tor level control, dot duration control, etc. Has builtin transformer-type power supply. Employs 4 dual-triodes, 2 VR tubes, 2 neons, and 3 diodes. Plug-in, vacuum-sealed, mercury-wetted relay used only to key transmitter and sidetone signal. Size, 5x7x7°. Requires keying device (see "Vibro-Keyer," above). For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 9 lbs. 90 \$ 119. \$5 Monthly......NET 79.95



ALLIED

Get Started in Ham Radio Now-See Page 456



JAMES KNIGHTS/PETERSEN PR CRYSTALS

PETERSEN Z-2 AMATEUR TRANSMITTING CRYSTALS. In black phenolic holder. Pin spacing, .486". Pin dia., .093". Tolerance, ±.03%. Size, 1½x 13½x⁷½". Specify frequency. Supplied ±5 kc of frequency specified. The crystals listed under Stock No. 99 S 257 (beneath table) are cut to the exact frequency you specify. Allow 30 days for delivery. Shpg. wt., 3 oz.

Stock No.	Frequency (kc)	Stock No.	Frequency (kc)	EACH
90 SS 379	1750-2000	99 SS 267	7000-7425	0.05
90 55 381	3500-4000	99 SS 259	8000-8222	2.95
90 SS 380	6740-6800	99 SS 296	8340-9000	

90 S 393. JK H-73*. 1.8-18.0 mc. Specify Exact Frequency EACH 4.80

JK H-173 AMATEUR CRYSTALS. For oscillators with low crystal current. Pin spacing, .486". Pin dia., .050". ½x½x½". Special order only. Allow 30 days for delivery. Specify frequency. Wt., 3 oz.

Stock No.	Frequency	Tolerance	EACH
90 S 382	1.8-40 mc	±.01%	4.95
90 5 383	1.8-75 mc	±.005%	5.95

JK H-93 FREQUENCY-STANDARD CRYSTALS. Black phenolic base; anodized

B JK SPECIAL-APPLICATION CRYSTALS. Size, $\frac{3}{2}$ 24.4.4. Pin spacing, .486". Pin dia., .093". *3rd overtone type. Av. wt., 3 oz.

Stock No.	Туре	Frequency	Tolerance	Application	EACH
90 \$ 386 90 \$ 387		4.5 mc 27.255 mc		TV alignment Radio control	4.80

B JK INDUSTRIAL CRYSTALS. Case size: Type H-17, 4% (x23 (x5 1/4"; Type H-17T, 133 (x23 (x5 1/4"; Pin spacing, 0.486". Pin diameter, 0.050". Special order only. Allow 30 days for delivery. Specify Type No. and frequency desired. Av. shpg.

Stock No.	1) 0	Frequency	Tolerance	EACH
90 \$5 389	H-17T (HC-13/U) H-17 (HC-6/U) H-17 (HC-6/U)	30 kc-200 kc -200 kc-750 kc 50 mc-100 mc	±0.005%	13.90

BLILEY SPECIALIZED SERVICE CRYSTALS

TYPE MC-9 ALIGNMENT CRYSTALS. For use as marker in sweep generators TYPEMC-9 ALIGNMENT CRYSTALS, For use as marker in sweep generators or for calibration purposes. Phenolic holder, 111/4x13/6x7/6. Tolerance, ±.02%. Pin spacing, .486" (½"). Pin dia., .093", 3 oz.

90 S 391. 5.0 mc. 90 S 392. 10.7 mc. NET EACH 3.95

MILLEN STEATITE CRYSTAL SOCKETS

Extremely low loss. Phosphor-bronze contacts. Tinned lugs. Av. wt., 2 oz.

Stock No.	Туре	Pin Spacing	Pin Diameter	NET EACH
72 S 035	33102	.486"	.094"	.36
72 S 075	33302 33002	.486"	.050"	.24
			1 72 000	

D MOSLEY CRYSTAL-SOCKET ADAPTERS

TYPE 75-5. Adapts .750" spaced crystal

TYPE 5-75. Adapts .486" spaced crystal

ANTENNA SWITCHING DEVICES

E NEW P&H AR-1 TRANSCEIVER TR SWITCH. Transfers antenna to tran ceiver on receive and provides switching to connect exciter to amplifier of transmit—fine for SSB exciter/linear. Exciter operatable straight through antenna if desired. 6 possible interconnections. For 3-30 mc. SO-239e for 50-**NET 32.5**

F ADVANCE CB/1C2C/115VA COAXIAL RELAY. For 52 ohms, Rated 800 v SPDT internal contacts connected to 83-1R. Also auxiliary DPDT 2-am contacts. 41 x x 39 x x 21 x 7. For 115 v., 50-60 cycle AC, 11 oz. NET 13.2

75 P 645. CB/1C/115VA. Above, less external DPDT contacts......NET 12.1

G JOHNSON 250-39 TR SWITCH. Switches antenna between receiver an transmitter. Rated 4000 w. Requires no tuning. Coax fittings. 43/xx4/xx55/x For 110-120 volts, 50-60 cycle AC. Wt., 5 lbs. 89 S 305. \$5 Monthly.NET 29.2

1.5-30 mc. 1 kw. For 90-120 v. DC @ 25 ma. 10 oz....

DOW-KEY DKC-TRP SELF-POWERED TR SWITCH. Coaxial type, for electronic antenna switching. Provides gain between antenna and receive For 1.8-30 mc. Rated 1 kw. 41/2x3x21/6". For 110-120 v., AC, Wt., 11/2 lbs.

89 S 308. \$5 Monthly ... NET 27.7 DOW-KEY COAXIAL FITTINGS. (Not illus.) DKF-2 is double male. DK-60-P I



MODEL 90932 MODULATION MONITOR. Completely self-contained Amateur-band oscilloscope for monitoring the modulated RF output of any SSB or AM transmitter. Built-in link-coupled tuned circuits cover all bands 3.5 through 54 mc. Displays both RF envelope and trapezoidal patterns. Shows linearity or non-linearity of Class B RF amplifiers, parasitic oscillations, neutralization, and RF output. Blanks out on standby. Easily connected to transmitter. Uses 2BPI, 2 round CRT, not supplied, individual coils for each band, and built-in seleniumrectifier power supply for operation from 110-120 v., 60 cycle AC. Size, 31/x31/xx

5%". Shpg. wt., 8 lbs. 89 S 045. \$5 Monthly. ... NET 87.50 E1-2BP1. RCA 2" CRT. 2 lbs. 20 2 Lass Consequently

MODEL 90872 ANTENNA BRIDGE. Sensitive bridge for measuring 5 to 500-ohm impedances at frequencies up to 200 mc. Use to check radiation resistance, resonance, line impedance, SWR, receiver input impedance, etc. Has differential variable capacitor. 31/x31/x51/". 21/x lbs. 89 S 310. \$5 Monthly.....NET 45.00

STATION COMPONENTS FOR "DO-IT-YOURSELF" SPECIALISTS



TUBE COOLING MOTOR AND FAN. Extends life by keeping envelope and seals cool. Permits more effective shielding of RF amplifiers, etc., without depending on convection cooling. Shaded-pole induction motor, 2400 rpm, 219,6211.6x 2½". Fan, 2½" dia. For 110-120 v., 50-60 cycle AC. 1½ lbs. 72 P 715. NET 4.43

EIMAC CONTACT FINGER STOCK. Silver-plated alloy strips. Make excellent contact; prevent RF leakage through cabinet doors. May be secured either mechanically or by solder-

NET 6.23

CARDWELL "X" TYPE TRANSMITTING CAPACITORS. (Not illus.) Single-section variable types. Av. wt., 4 lbs.

STOCK NO.				Air Gap	Size"	NET
75 L 047	PL-8013	50 - 1500	65	.030°	527/32X5X5¾	22.50
75 L 048	PL-8048	20 - 220	21	.070°	41/32X33/16X315/16	10.73

BAW NETWORKS AND CHOKES (Not Illus.)

89 S 322. MODEL 850A PI-NETWORK INDUCTOR. For single

89 S 669, MODEL 350-2Q4 AUDIO PHASE-SHIFT NETWORK,

Splits signals from 300-3000 cps into 2 equal components 90 out of phase. Octal base. Wt., 1 lb...

89 S 950. MODEL 800 RF PLATE CHOKE. For 80-10 meter

89 S 995. MODEL FC-30A FILAMENT CHOKE. For grounded grid amplifiers. 30 amps. 2x2½x5′. 2½ lbs.........NET 10.45



IEW-TRONICS MOBILE ANTENNAS

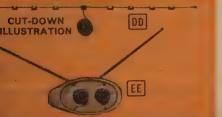
III.) New "Hustler" type. Antenna consists of 1 t, 1 resonator. For 52-ohm coax. 1 lb.

ck	No.	Type	Description	Ant. Ht.	NET
Z	849 850 859 860	RM-15 RM-20	10-mtr resonator 15-mtr resonator 20-mtr resonator 40-mtr resonator	75"-80" 76"-81" 78"-83" 87"-92"	5.95 6.95 7.95 9.95
Z	864 879	RM-75	75-mtr resonator Rear-d'k /f'dr-mt. 54" mast for bum		7.95 7.95



OBILE ACCESSORIES Av. wt., 3 lbs.

tock No	o. Mfr. &	Туре	Fig.	Description	NET
5 99	New-tr'cs	C29-32	T	Chrome base, sp'ng, W/in- sulator,howe,	- 07
	94 New-tr'cs			%-24 stud Base only Spring only	5.07 2.01 3.06
	23 Ant. Spec		BB	Double chain bumper mt.	7.79
5 99	96 Hy-Gain 1	r-3	CC	Coil /ctr- loaded whips 10 /15 /20	16.95



Amateur Antennas, Mounts, Accessories

MASTER MOBILE

ANTENNAS

NEW AM-5 TWIN-6 STACKED 2-METER BEAM. 12 db gain; 25-30 db F/B. Pretuned. Mounts vertically/horizontally. Aluminum. With harness for 52-ohm coax, 3' mast, balun, hdwe, 10 lbs.

MASTERPLANE 300 2-METER GROUND PLANE. Has 4 drooping, 4 adjustable straight radials. With 3' mast, 52-ohm coax fitting. 3 lbs.

C 113 2-METER MOBILE WHIP. For auto roof-top mtg. Covers 140 to 165 mc. 7/8" mtg. hole. With 12' of 52-ohm coax and PL-259. Wt., 1 lb.

89 SX 073. 613 WHIP. Above, with locking coaxial antenna-base connector...... NET 4.85

114 2-METER COAXIAL ANTENNA. Low radiation angle from car or fixed location. For 140-165 mc. With 12' coax, 3" dia. stud. 5 lbs. ...NET 9.75

B-1080 "SLIM JIM". For 10-75 meters. Baseloading coil with 96" whip. 4½ lbs.

89 CU 090. NET 17.59

LOADING COILS

666 "ALL BANDER." Continuously variable. 666 "ALL BANDER." Continuously variable, 10-75 meters. Silver-plated roller. Selects any pair of adjacent turns. 2%x13%". 1½ lbs.

89 S 048. 750 "DELUXE ALL BANDER." Above but selects any spot on any turn. 2½ lbs. NET 14.66

LOADING COILS (Cont'd)

F 900 "ARISTOCRAT." Tapped for 10-75 meters. -section whip. 3x6". 1 1/2 lbs.

G 925 DELUXE "MICRO-Z-MATCH." Variable. Matches any coax to any whip. 1 lb. NET 9.95

"ULTRA-HI-Q" COILS. For 1 band use with 2-section whip. Q over 515. Wt., 1 lb.

89 S 143. 80 Meters. 2½x8"..... NET 5.14

MOBILE ACCESSORIES Av. wt., 3 lbs. Description Stock No. 'Flex R'' strain relief spring 89 5217 H Heavy-duty sping double swivel, 89 5224 AAA chain mount %"-24 chain mt. 5 2 3 8 445 Heavy-duty sp'ng & chain mt. Cad.-plated sp'ng Above, heavy duty Ebony base mount 446 89 5 252 13.45 4.41 5.39 \$ 270 MMW7 \$ 272 MMW7HC \$ 285 MMW3AE Polished mount & 89 S 287 MMW3APS steel hardware Heavy-duty stain-9.06 89 S 288 MMW7SS less spring 96" stainless whip 60" stainless whip 100-96S 100-60S 90 CU 844 36" lower section 90 SX 846 .88 Hold-down clamp "E-Z-Off" noise-

& MOBILE ANTENNAS FAMOUS-NAME FIXED FIXED-STATION VHF TYPES

NEW CUSH CRAFT A26-9 6 AND 2-METER BEAM. Combination 4-element 6-meter and 6element 2-meter beam on one 12' x:1 1/4" .058-wall aluminum boom. 2-meter elements preassembled on boom. Gain: 10 db on 2; 9 db on 6. F/B ratio: 25 db both bands. 1:1 SWR at freq. Turning radius, 7'6'. Requires 2 separate 52/72-ohm feed lines. 11 1/2 lbs 90 CZ 883. \$5 Monthly......NET 27.50

NEW CUSH CRAFT SINGLE-BAND VHF BEAMS. (Not illus.) All-aluminum beams. A50-10 has .058wall tubing boom, ½" .050-wall tubing elements, and Reddi Match for 52/72 ohms. A50-3P is portable type with 1" tubing boom, ½" solid elements and direct 52-ohm match—folds to 50x4x4" for easy carrying. A144-11 has 1"-dia. .050-wall tubing boom, preassembled 3½"-dia. solid elements; matches 300 ohms (matches 72 ohms if used with balun). E, number elements; L, boom lgth.; R, turning rad.

Stock No.	Type	Band	E	L	R	Lbs.	NET
90 CZ 884 90 CZ 885 90 CZ 886	A50-3P	6	10 3 11	24' 6' 12'	13' 6' 6'	25 4 6	49.50 10.95 12.75

NEW CUSH CRAFT CL-116 18-ELEMENT 2-METER COLINEAR. (Not illus.) Provides 13.2 db gain. Has 4—½" tubing booms 29" long; elements ½" and stacking bars ½" solid. All aluminum. Directly matches 300 ohms (72 ohms if used with balun). Overall ht., 10'. Requires mast 1½" dia. 10 lbs.

89 CZ 887..... NET 16.00

P ANTENNA SPECIALISTS M-7A 2-METER GROUND PLANE. Radiator and 4 radials. U-bolt hdwe, for 3/2" pipe. Accepts PL-259. 8 oz.

Z BK/MARK ABB-6 6-METER "BEACON." New //-wave vertical—no radials/skirts. Has 102" radiator, fiberglas mtg, section, 50-ohm stub. Chim-

MOBILE HALOS & WHIPS

S HY-GAIN HH-6 HALO. For 6 mtrs. 1" aluminum tubing. 52 ohms. Std. mt. Less mast. 5 lbs. SX 997. NET 12.95 90 SX 999. HH-2 HALO, Above, for 2 meters

aluminum tubing. 1 ½ lbs.... 90 CU 295. HY-GAIN HM MAST. Takes Halos singly/together. 8'. Std. mt. 3 lbs......

R 90 SX 296. ANTENNA SPEC. ASP-157. 2meter whip. Clamps on car rain gutter. Cut for 144 mc. With 12' RG58U. PL-259. 1½ ibs. NET 6.76

W BK/MARK CVS-2144, 2-mtr. %-wave whip. 21/2 db over 1/2-wave. Use HWM1/SA1 below. 1 lb. 90 SX 297. NET 7.50

BK/MARK HW HELIWHIPS. Fiberglas continuously loaded whips for fender, trunk lid (etc.) mtg. *2:1 VSWR bandwidth. Fit std. mt. or HWM-1. †Permits 90° swiveling of HWM-1 for side/angle mtg.

Stock No.	Type	Band	*KC	Ft.	Lbs.	EACH
90 SX 298 90 SX 299 90 SX 302 90 CX 307	HW-10 HW-15	6 M 10 M 15 M 20 M	4000 1000 500 250	3 4 4 6	3/4 3/4 3/4 1	9.95 9.95 9.95
90 CX 308 90 CX 309 90 CX 310	HW-40 HW-80	40 M 80 M 10-15-20M	10 60		1 1 3	10.95 10.95 19.50
89 S 6 1 4	HWM-1 SA-1†	Molded bas Swivel ada		t	1/2	7.50

WEBSTER "BAND SPANNERS." Tunable fiber-WEBSTER BAND SPANNERS. Total glas center-loaded whips for 10-75 meters. A-61

bumper mtg.; A-62, fender/deck. Av. wt., 1 lb.

89 CU 752. A-61. 117" overall.....EACH

90 CZ 347. A-62, 93" overall.....EACH

MOSLEY MA-3 "TRAPMOBILE." Stainless whip covers10/15/20 without switching/retuning -requires std. base loading coil for 40/80. Center

ANTENNAS FOR SHORTWAVE LISTENERS

MOSLEY MODEL SWL-7 OUTDOOR DIPOLE KIT. A low-cost, easy-to-assemble kit that really pulls in foreign stations! Peaked for the 7 international shortwave bands between 11 and 49 meters. Includes: 8 weatherproof trap assemblies, center connector, 45' of copper wire, porcelain insulators, 100' of 75-ohm lead-in. Wt., 3 lbs. 90 CX 346.....NET 14.75

EE HY-GAIN MODEL SWI INDOOR ANTENNA.A sensitive indoor antenna covering 5 through 30 mc; includes all important international shortwave broadcast bands, 4 Amateur bands, CB, etc.
Chrome-plated telescoping ears. "Tune" and
"match" controls allow adjusting for maximum
signal. 6' cable. Plastic housing. 1 lb. 90 SX 349. NET 14.75



THUNDERBIRD "TRI-BANDER" BEAMS. Rugged trap-type beams covering 10, 15 and 20 meters. Employ heavy-duty aluminum 2" boom and 1 ½" elements tapering to ½". Less than 2:1 SWR on all 3 bands with no adjusting. Withstand 2 kw PEP. Weatherproof 1½"-dia. solid-state Silm-Traps. TH-4 has pretuned beta match and interlaced 4th element for high gain and F/B ratio. L, boom igth.; R, turning radius.

Stock No.	Type	Elements	Db Gain	L	R	Lbs.	NET
89 CZ 756 89 CZ 754 89 CZ 755	TH-4 TH-3	4 3	8-8.9 Up to 8	16' 14' 6'	17'10" 14'8" 13'8"	42 36 23	117.50

NEW "DUO-BANDER" BEAMS. Compact beams permitting 2-band operation with single 52-ohm coaxial feed lines (not supplied). Type DB-24 has 3 elements on 20 meters, 2 elements on 40; utilizes linear loading (no traps). Type DB-62 has 4 elements on 6 meters, 18 elements on 2, L, boom length; R, turning radius.

Stock No.	. , , , ,	Bands	Db Gain	L	R	Lbs.	NET
89 CZ 757 89 CZ 758	DB-24 DB-62	20, 40	4.9-8.1 8-15		24'2"		169.50
	22002	0, 4	0-13	10'	8'	6	32.95

"MONO-BANDER" SINGLE-BAND BEAMS. Incorporate beta match, factory pretuned for less than 1.5:1 SWR into 52-ohm line. All are full-sized arrays except Type 402-B (40-meter "Hy-Seven") which employs linear loading to maintain high efficiency with elements of reduced size. Aluminum-alloy construction. E, number of elements; L, boom ligth.; R, turning radius.

Stock No.	Type	Band	Ε	DB Gain	F/B Ratio	L	R	16/9	NET
89 CZ 759 89 CZ 760 89 CZ 761 89 CZ 762	203-B 153-B	20M 15M	3	5 8+ 8+ 8+	20db 25db 25db 25db 25db	16' 16' 12' 8'	16'4" 19'3" 13'6" 9'8"	40 lbs. 35 lbs. 19 lbs. 12 lbs.	99.75 65.95 38.50

BALUN TRANSFORMERS. Designed to couple unbalanced 52-ohm coax to balanced 52-ohm antennas. Ideal for use with Hy-Gain beams on this page. Improve energy transfer, eliminate stray RF, Improve pattern, reduce TVI. Handle full legal power with SWR less than 2:1. Mounts at antenna, 3 lbs.

89 S 478. TYPE	BN-12. Covers 13.8 to 30.5 mc	NET 13 50
89 S 479. TYPE	BN-24. Covers 6.8 to 14.5 mc	FACH 13.50

MULTIBAND VERTICALS. (Not illus.) Multiband verticals for use on up to 4 bands without switching. Employ solid-state Slim-Traps. Pretuned for under 2:1 SWR. Match 52-ohm lines. Handle 2 kw PEP. With base insulator and mast mount. Require roof mtg. kit (below) containing mast, radials and hardware.

Stock No.		Bands	Height	Wt. Lhe	NET EACH
89 CX 765 1 89 CX 766 1	4-AVS 2-AVS	10, 15, 20, 40 10, 15, 20	21'	10	29.95

89 CU 767. 14-RMK ROOF MTG. KIT. For 14-AVS. Wt., 9 lbs. ... NET 11.95 89 CU 768, 12-RMK ROOF MTG. KIT. For 12-AVS. Wt., 7 lbs...... NET 9.50 18-HT HY-TOWER MULTIBAND VERTICAL

This completely self-supporting vertical utilizes an efficient studecoupling system for automatic selection of the 10, 15, 20, 40 and 80

MULTIBAND DOUBLETS. (Not illus.) All except 2BDP are trap types with Slim-Traps and 500 w. AM /1 kw PEP ratings, 2BDP is a trapless fan doublet rated at 1 kw AM /2 kw PEP. With center /end insulators. Less 52-ohm coax.

Stock No.		Bands	Length	Shpg. Wt.	NET
89 SZ 770 89 SZ 771 89 SZ 772 89 SZ 773 89 SZ 774	2BDT 3BDT 4BDT	15, 40, 80	128' 96' 29' 65' 108'	2 lbs. 4 lbs. 3 lbs, 4 lbs.	19.95 19.95 17.50 24.50 34.95

89 S 351. EXTRA TYPE CI CENTER INSULATOR, 8 oz...... EACH 3.95 89 S 355. EXTRA TYPE EI END INSULATOR. 7' long. 3 oz. EACH 1.00

DS-1 DISCONE. (Not illus.) Omnidirectional antenna covering 50 through 500 mc without adjustments. Maintains low-angle radiation and nominal 50 ohms with less than 1.5:1 SWR. Heat-treated aluminum elements. 9 lbs. 89 SX 791. \$5 Monthly...

GROUND PLANES. Variable-tuned ground planes covering Amateur, Citizens and commercial bands from 25 to 500 mc. Radiator and radials are of heat-treated aluminum alloy. Base insulators adjust to 3% to 15% mass. Each antenna can be peaked to a specific frequency. Less than 1.2:1 SWR. 52 ohms.

Stock No.	Type	Frequency Range	Height	Wt. Lbs.	NET
89 CZ 775 89 SX 776 89 SX 777	GP-1C GP-2C	25-50 mc 50-88 mc	9' 41/2' 11/2'	10 7 4	32.70 21.90 14.97

SINGLE-BAND VHF BEAMS. Top-quality beams for the most popular V bands. All have excellent F/B ratios, are of rugged all-aluminum construction and lightweight enough for TV rotators. 6-meter types have beta match for 52-ol coax. Others (VHF "HI-Banders") may be fed with either 52 and 72-ohm coax 200, 300 and 450-ohm parallel lines. E indicates number of elements; L, botalists. length; R, turning radius.

Stock No.	Type	Band	E	Db Gain	R	Wt.	NET
89 CX 778 89 CX 763 89 CX 779 89 CX 764 89 CX 780 89 CX 781	65-B 25 210 111	6 6 2 2 11/4 (220) 3/4 (420)	8 5 10 11 13		7'1" 26"	13 lbs. 8 lbs. 3 lbs. 6 lbs. 5 lbs.	32.9 18.9 8.9 14.9

89 S 369. 25-S STACKING KIT. For 2 Type 25 beams. 21/2 lbs....... NET 4.1 89 S 370, 210-S STACKING KIT. For 2 Type 210 beams, 3 lbs.......NET 4.

89 S 350. LC-80. 80-METER LOADING COIL, For 14-AVS. 1/2 Ib... NET 7.95

MOSLEY ANTENNAS

TA-36 10/15/20-METER BEAM. 20 db F/B ratio. Gain: 10 meters, 9 db; 15, 8.5 db; 20, 8 db, SWR 1.5:1

TA-33 10 /15 /20-METER BEAM. To 8 db gain; 25 db F/B. Traps take 1 kw. 14' boom. 1.1:1 SWR. Fits masts to 1½". Radius, 15'6". 54 lbs.

89 CZ 786. \$5 Monthly............NET 99.75

89 CZ 787. TA-33 JR. Above, but 300-w. model. 12' boom. 14'9' radius. 28 lbs............NET **69.50**

V-4-6 4-BAND VERTICAL. For 10-40 meters. Traps rated 1 kw. Aluminum tubing telescopes to 20'. With

89 S 371. D-4BC 80-METER BASE LOADING COIL. For above. Wt., 3 lbs. NET 15.67

V-3 10 /15 /20-METER VERTICAL. Traps rated 1 kw.

Joslay

NEW CONVERSION KIT

TA-36

TA-40K. Converts TA-33, TA-32, TA-31 S Trap-Masters to 40 meters as single rotatable dipole, 10/15/20-meter operation totally uraffected. Easily installed. Turning radius 22 %. With mast, guys, hdwe, 13 lbs. 89 S 375. \$5 Monthly NET 39.9



FINCO A-62 6 & 2-METER BEAM

- Heavy-Duty Boom 10' Long
- All Elements Sleeve-Reinforced
- Suspension Rods End Boom Sag

An advanced-design VHF beam offering F /B ratios of 17 db on 6 meters and 20.5 db on 2 meters. Gain is up to 8 db on 6, and to 15.1 db on 2. Has folded dipole, reflector and 2 directors working on 6; folded dipole with phasing stub. 1—3-element colinear reflector and 4-3-element colinear directors working on 2. Elements are preassembled with snap-out brackets for easy installation. Preassembled boom suspension rods snap into upper end of mast. Hardy 1"

89 CZ 783. AS-82 STACKING KIT. 1/2 Ib.... 2.15

All New-KNIGHT Citizens Band Transceiver



1 μν sensitivity, super-selective 3-stage IF, adjustable squelch, automatic noise limiter, AVC. Terminals for headphones; illuminated tuning dial and planetary mechanism give accurate, backlash-free tuning. Transmitter section offers full 5-watt input, press-to-talk operation, match Solution and Solution of the section controls: On/Off Volume, Tuning, Squelch, Channel Selector, Spot switch, Meter switch, Tune-Fixed selector switch. Built-in 3" speaker. With ceramic press-to-talk mike and coiled cord; less mobile power supplies, below. 15 tube functions silicon diode rectifiers. 5x11 ½x65%. For 110-120 v., 50-60 cycle AC. 14 lbs.

90 SU 413-J, \$5 Monthly ONLY 99.95 90 S 679-J, 12-V. Supply. 90 S 680-J. 6-V. Supply. 4 lbs. . . . EACH ONLY 11.95

EXCEPTIONAL VALUE! LOW-COST LINCOLN CITIZENS BAND TRANSCEIVER



DJUSTABLE SQUELCH FOR SILENT STANDBY

LINCOLN MODEL L-2000A CB TRANSCEIVER

\$5 monthly

5-Channel Transmit 5-Watt Transmitter

Superhet Receiver

Intercom-Type Press-to-Talk Switch

Get excellent mobile or base-station performance at low cost. Features superhet receiver with all-channel vernier tuning, ANL, AVC, 5-channel transmit-crystal selector, 5-watt input transmitter; paging switch, external speaker jack. $4\% \times 10\% \times 6\%$. Channel 9 crystal, mike. For 115 v., AC. 11 lbs. 90 SX 145-J. \$5 Monthly.....ONLY 57.50

90 S 679-J. 12-V. Power Supply. 4 ibs...11.95 90 S 680-J. 6-V. Power Supply. 4 lbs....11.95

xtra Crystals for Above are Listed Elsewhere in this Section

Fixed and Mobile Citizens Band Transceivers A FEW REASONS WHY **ALLIED SERVES YOU BEST** King-Size Trade-Ins—Write Today

- Credit Fund Plan—No Money Down
- Free Trial-In Your Own Home
- Free Helpful Technical Assistance



JOHNSON "MESSENGER"

MODEL 242-128. Compact 5-channel Citizens Band transceiver for mobile or fixed-station use. Offers top performance, convenient operation. Has highly sensi-tive superhetrodyne receiver section, full 5-watt transmitter section. Front-panel switch selects any of 5 crystal-controlled transmitting and receiving channels. Also has automatic noise limiter, squeich that keeps receiver quiet between mes-

90 SX 415-J. MODEL 242-127. As above, for 110 v. AC or 6 v. DC. NET 144.95

90 S 416. MODEL 251-828 UNIVERSAL UNDER-DASH MOUNTING KIT. For above transceivers. Shpg. wt., 1½ lbs. NET 2.50

HALLICRAFTERS CB-3A TRANSCEIVER

Newly improved fixed station or mobile transceiver with provision for 8 crys controlled transmit and receive channels. Offers modern compact styling. D controlled transmit and receive channels. Offers modern compact styling. December 2019 conversion receiver section has 6-kc selectivity—reduces adjacent channel in ference. Sensitivity: better than 1.0 μ v for 10 db signal-to-noise ratio. Dimiters effectively reduce impulse noises, 5-watt loop neutralized transmit section has link-coupled output—matches 25 to 75-ohm transmission lines of the coupled output—section dual power supply uses a ceient silicon diodes. In 2-tone gray enamel finish cabinet. Size, 5/x12/x87. When the coupled output—section diodes in 2-tone gray enamel finish cabinet. Size, 5/x12/x87. When the coupled output—section diodes in 2-tone gray enamel finish cabinet. press-to-talk mike and transmitting and receiving crystals for Channel 11. Loptional S-meter. For 110-120 v., 50-60 cycle AC or 12 v. DC. 12½ lbs.

90 SU 411-J. \$8 Monthly. 90 SU 454-J. As above, for 110 v. AC or 6 v. DC... . NET 159.

90 S 417. HA-9 ILLUMINATED S-METER KIT. For above. 1 lb. NET 8.





NEW MULTI-PRODUCTS CITI-FONE CD-7

Deluxe 5-Channel Citizens Band transceiver for mobile or fixed station use. Function switch instantly selects crystal-controlled receive, tunable receive or crystal "spot" to permit locating transmitting crystal frequencies. Has illuminated dial; 4:1 vernier "spot" receiver tuning. Dual function meter shows signal strength and power output.
Sensitive superhet receiver section has 8 tuned cir-

cuits, squeich, automatic noise limiter. Sensitivity: ½ µv for 6 db signal-to-noise ratio. Efficient 5-watt transmitter operates on any of 5 switch-selected crystal frequencies. Has high-level AM modulation.

MULTI-PRODUCTS CITI-FONE CD-5/12

MODEL CD-5/12. A versatile 5-channel transceiver that can be taken anywhere. Provides dependable Citizens Band communications—keeps you in constant touch wherever you go. Superhet receiver section features high sensitivity and selectivity. Transmitter section operates at maximum legal power, is AM modulated. Front panel switch selects any one of 5 channels-both receiver and transmitter sections are crystal controlled.

Has adjustable squelch control and built-in automatic noise limiter. Power plug fits into auto's cigarette lighter—permits fast mobile installation. Blue and gray finish metal cabinet. Compact, only 4½x8x11". With press-to-talk ceramic mike, cryetals for one channel, power cords. Less antenna. For operation from 110-120 v., 50-80 cycle AC or 12 v. DC. Shpg. wt., 12 lbs. 90 SU 420-J. \$7 Monthly.....

MODEL CD-5 /6. For 110-120 v. AC /6 v. DC. 90 SU 421-J. NET 134.50

TRANSCEIVER KIT BY EICO

MODEL 770. Provides easier, more effective Citizer Band communications. Front-panel selection of transmit crystals. Sensitive tunable superhreceiver section has RF stage for 3 μv sensitivit automatic noise limiter, adjustable squeich control automatic noise limiter, adjustable squeich contro 5-watt transmitter section features press-to-ta mike, pi-network output, plate modulation with automatic limiting. Eight tubes and germanium diod provide reliable performance. Metering jack i cathode circuit for Input power checking. Ha function indicator lights. With mounting bracke mike and 1 crystal. For operation from 110-120 v., 50 cycle AC. Shop with 10 the

or Wired

60 cycle AC. Shpg. wt. 12 lbs. 90 SX 137-J. \$5 Monthly. **NET 79.9** 90 SX 138-J. Above, factory wired and tested. \$6 Monthly......NET 109.9

MODEL 772 KIT. For 120 v. AC /12 v. DC. 90 SX 139-J.

NET 89.9

90 SX 140-J. Above, factory wired and tested. \$6 Monthly......NET 111.9

Tunes CB and **Broadcast Band** Uses Rechargeable **Battery** • 5 Mile Range 18 Transistors, 5 Diodes Variable Squeich and Sensitivity To Recharge, Just Plug Into Any 115 VAC Wall Outlet ALLIED

NEW VOCALINE COMMAIRE PT-27

Completely transistorized, battery-powered portable 4-channel Citizens Ban transceiver. Offers versatile performance, reliable on-the-go communications Operates at ranges of up to five miles with its 62" center-loaded whip—eve greater ranges with a more elaborate antenna. Uses 18 transistors and 5 diodes

Double conversion superhet receiver section has 0.1 μv sensitivity for 10 d signal-to-noise ratio. Tunes 22 channels and is also crystal-controlled on any of four channels. Also tunes 535-1605 kc broadcast band for news, weather, Conel rad, etc. CB receiver section has fine tuning control on fixed channels, adjustable sensitivity-squeich, ANL, and excellent adjacent-channel rejection.

For Listings of CB Crystals, See Page 302

POLY-COMM PC-"N"12 TRANSCEIVER

al conversion—features Nuvistor RF stage that provides better than 0.1 μν eiver sensitivity. Has adjustable squeich; noise limiter; modulation inditor; 4" PM speaker; 5 watts input. Adjustable output matches 52-ohm or 72m antennas. Extremely high adjacent channel signal rejection. Provision for 4 stal-controlled transmit and receive channels. 11-tube circuit. With crystals one channel, AC/DC power cords, press-to-talk mike, mtg. brackets. Steel binet. 7/xx11x5". For 110-120 v., 50-60 cycle AC or 12 v. DC. 18 lbs.
SU 423-J. \$10 Monthly

SU 424-J. MODEL PC-"N"-8. For 115 v. AC or 6 v. DC.

NEW! POLY-COMM SENIOR "23" TRANSCEIVER

For the CB perfectionist. Frequency synthesizer provides crystal-controlled transmit and receive on all 23 channels-no extra crystals to buy! "Poly-Call" two-way tone-controlled squelch silences receiver until mating unit in system calls in. Unaffected by transmissions from units not in system, even those operating on the same channel! Message light remains on after unit is called. Dual conversion superhet receiver section has nuvistor RF and mixer stages, squeich, conversion superner receiver section has invision. At and mixer stages, moise limiter, 0.1 μ v sensitivity, Efficient 5-watt transmitter section matches 52 to 72-ohm antennas. All electronic switching circuitry eliminates relays. Meter indicates signal strength, RF output, or modulation. Unit doubles as PA amplifier. Uses 14 tubes and 10 diodes. $4/\chi$ x12x8 $\frac{1}{\chi}$ ". With press-to-talk mike, mobile mounting bracket, power cords, 2625 kc tone filter. For 110-120 v., 50-60 or 12 v. DC. Shpg. wt., 23 lbs.

cycle AC or 12 v. DC. Shpg. 1 90 SU 426-J. \$17 Monthly NET **349.50**



NEW SONAR MODEL E

pendable mobile or fixed-station transceiver. Has pvision for 8 crystal-controlled transmit and reve channels; receiver also tunes all 22 channels. ceiver section has 0.5 µv sensitivity adjustable uelch, ANL. Full 5-watt transmitter section has sh-pull Class "B" or RF indicator. Uses 9 tubes, flodes. With press-to-talk mike, crystals for one annel. 4%x11 1/x9 1/2". For 110-120 v., 50-60 cycle or

S 427. S-METER. For above. 1/2 lb. NET 17.95

LUXE MODEL G. Dual-conversion receiver, proion for 8 crystal transmit and receive channels; ceiver also tunable. Spotting switch. Meter reads tput and "S" units. 43/x91/x111/4". For 110-120 v.,



KAAR TR-327B TRANSCEIVER

For mobile or fixed-station use. Provides reliable 2-way communications. Has 2 channels crystal-controlled transmit and receive plus 3 channels crystal-controlled transmit and tunable receive on all 22 channels. Superhet receiver section has 0.5 μν sensitivity, 6 kc selectivity, 2 IF stages, squelch, AVC. ANL.

5-watt input with 100% modulation capability. Has front-panel output tuning control. Illuminated signal and power output meter. 4½" speaker. 2-tone gray cabinet. 5½x10½x8½". With presa-to-talk mike, AC and DC cables and mtg. bracket; less crystals. For 110-120 v., 50-60 cycle AC or 12 v. DC. Shpg.



CADRE "510" TRANSCEIVER

Compact, completely transistorized 5-channel transceiver. Uses 18 transistors and 8 diodes for low battery drain-ideal for mobile as well as fixedstation applications. Has provision for 5 crystalcontrolled transmit and receive channels. In addition, provides manual tuning that covers all 22 Citizens Band channels.

Features dual-conversion superhet receiver section; 1/2-uv sensitivity for reliable long-distance reception. Also has adjustable squeich, automatic noise limiter, pi-network output filter, speech clipping. Jack for headphones or external speaker. Provision for selective calling.

Easily mounted in car, truck, boat or plane. Brushed aluminum and charcoal metal case. 31/x111/xx51/3. With press-to-talk mike, crystals for Channel 11, mtg. bracket, plus power cords for AC and DC. For 110-220 v., 50-60 cycle AC or 12 v. DC. Carrying case and rechargeable battery pack available on special order, i0 lbs.

90 SU 434-J. \$8 Monthly NET 179.95

AMMARLUND HQ-105TR RECEIVER TRANSCEIVER

ombines a sensitive, general-coverage shortwave receiver with a 5-watt singleannel transmitter that can be used for Citizens Band communications or tuned to the 10-meter Amateur Band (requires general-class Amateur license use on 10 meters). Receiver is continuously tunable from 540 kc to 30 mc in 5 nges. Has variable Q-multiplier, sensitivity and selectivity controls; S-meter, ndspread, BFO, antenna trimmer. Offers push or switch-to-talk transmit. nsitivity: 1.75 µv. Size, 97/xx16/x9%". Less crystal, clock-timer, speaker, low, and mike. For 110-120 v., 50-80 cycle AC. Wt., 35 lbs.

SU 181-J. \$11 Monthly

NET 219.50

SU 184-J. HQ-105TRC. Above, with clock-timer. 37 lbs...... NET 229.50

SX 659-J. S-100 SPEAKER. For above. 10 lbs................... NET .4.95

SU 276-J. HQ-105TRS. Above, with speaker, less clock. 37 lbs...224.50

ODEL CB-8 8-CHANNEL PUSH-BUTTON CRYSTAL SELECTOR. Plugs Into nove Hammariund transceivers. Permits instant selection of any of 8 crystalntrolled transmitting frequencies. Less crystals. 1½x7x2½". ½ lb.

or Listings of CB Crystals, See Following Page



SELECTIVE Selected Citizens Band Station Accessories CALLING W MANAGEMENT WAS THE W MOBILE ACCESSORIES R M E P

A JOHNSON "TONE-ALERT"

Selective calling system attaches to most CB units. Uses frequency-selective resonant relay. Unit remains silent until called by other units in system. Unaffected by units not in system. 4x1 ½x7½". For 115 v. AC/12 v. DC units. 4 lbs. 89 \$ 389. \$5 Monthly. NET **59.95** 89 \$ 393. For 115 v. AC/6 v. DC units. NET **59.95**

B TURNER P-254C MICROPHONE

Versatile ceramic mike. Features push-to-talk bar and button, lock-on switch. 80-7000 cps response. -54 db. output. 5' cord. 2½ lbs. 90 S 281. NET 15.29

AUDIO COMPRESSORS

C ELENCO "POWER GAINER". Compression amplifier increases talk-power. Rides gain on voice frequencies essential to good communications. Prevents over and under-modulation. Not a clipper. 5x6x4". For 115 v. AC (6 and 12-volt DC models also

89 S 503. For 115 v. AC/6 v. DC...... NET 34.75

E BRC "NOISTOP"

Ignition noise filter reduces pulse-type interference from cars, trucks, outboard motors. Also provides squelch action. May be attached to any superhet-type CB transceiver. 1 ½x2 ½x4". 1 lb. 90 S 106.

CB TEST EQUIPMENT

SECO 510. For fast CB servicing. Reads modula-

90 S 280. CESCO CB-52C. Reads power output and SWR. Reads 0-5 watts. For 52-ohm coaxial lines. 5½x2½x2½". Wt. 10 oz...NET **24.95**

89 S 505. CESCO "PHANTOM". 52-ohm non-H 89 5 303. CESCO Inductive dummy load. For CB transceivers Has UHF connector. Wt., 6 oz......NET 1.49

89 S 507. MONARCH FSI-1. Field-strength meter has magnet base, 200 μa meter, 10¾" whip. 23/hx33/hx19/h". From Japan. 8 oz........ NET 6.95 89 S 509. Above, tunes 1.6-150 mc..... NET 8.40

M. C. JONES "MICROMATCH". Measures RF power output and SWR. May be left in circuit. For 52-ohm coax lines. 2x4½x2½". 1 lb. 90 S 149. \$5 Monthly..................NET 26.50

87 F 305. SECO 500. Test set checks crystals, provides RF test signal. Has 2 transistors, 1 diode. With 15' remote cable, batteries. Size,

M MICROPHONE COIL-CORD

90 S 028. MONARCH "KURLY-KORD". Extends to snaps back to 1'. For high-imp. mikes. 3cond., 1 shielded. From Japan. 6 oz..... NET 2.29

CESCO CABLE ADAPTERS

90 S 029. TYPE CS. SO-239 socket one end, auto space plug other end. 3 oz.....1.29

90 S 030. TYPESC. PL-259 plug one end, auto spade socket other end. 3 oz.... EA. 1.29

MOBILE ACCESSORIES

R SPRAGUE SK-1 "SUPPRESSIKIT." Ignitio interference suppression kit. Easily Installed For 6 or 12-voit systems. Contains 5 "Thru-Pass capacitors, wire, instructions, 1½ lbs. 89 S 511.....NET 17.8

CESCO 3-30 NOISE FILTER. Eliminates generate S CESCO 3-30 NOISE FILTER. Eliminates golician whine. Tunable 3-30 mc. Easily installed. With mtg. bracket. 5 oz. 89 S 512. NET 2.9

HY-GAIN CPR COUPLER. Switches antenn between CB and auto radios. Negligible loss With cables, connectors. 7 oz. 89 S 513. NET 8.9

W MADE-UP COAX CABLE KITS Use low-loss cable with silver plated connectors RG-58/U except *RG-8/U.

89 \$ 5 5 89 \$ 5 6 89 \$ 5 7 89 \$ 5 8 89 \$ 5 9 89 \$ 5 20	40			EACH
89 \$ 516 89 \$ 517 89 \$ 518 89 \$ 519 89 \$ 520	10	Each End	1/2	2.95
89 \$ 517 89 \$ 518 89 \$ 519 89 \$ 520 1	10*	Each End	1/2	3.7
89 S 5 8 89 S 5 9 89 S 5 20 1	20 20*	Each End Each End	1 .	3.75
89 S 519 89 S 520 1	50	Each End	13/	4.45 5.75
	50*	Each End	$\frac{1\sqrt{3}}{4}$ $1\sqrt[3]{4}$	8.25
20 C 522 1	00	Each End	31/2	8.95
	00*	Each End	31/2	14.95
	10	One End	1/2	2.45
	10*	One End	. 1/2	2.95
	20	One End	1	2.95
89 \$ 537	20*	One End	1	3.95
	50	One End	13/4	4.85
	50*	One End	13/4	7.95
	00	One End	31/4	7.95



COMPREHENSIVE LISTING OF TRANSMITTING AND RECEIVING CRYSTALS

Easy-to-follow listing of transmitting and receiving crystals for all popular Citizens Band units. Available for any channel, 1 to 22. Specify Stock No. and Channel desired." Precision made, have hermetically sealed holders. Tolerance: ± .005%-meet FCC requirements. For

equipment not listed here, write to our Technical Service Department. Give make and model of your equipment and as much circuit and crystal information as is possible. *Indicates none required. "Special" indicates Special Order-30 day delivery. Wt., 3 oz.

Manufacturer	Stock Numb		Stock Number	Manufacturer	Stock P	lumber
and Model	Transmit Rec	man of Mandal		and Model	Transmit	Receive
Airline (Wards) 587 Action Labs TCI-77	90 SS 368 90 S 90 SS 350 Spe	5 363	Transmit Receive	PolyComm PC-11,11G,N		
Arkay (All Units) Arvin (All Units)	90 SS 366 90 S	S 360 Heath CW10	90 \$5 366 *	Radifon Radson RT70A	90 SS 366 90 SS 366	
Bendix BC-6	90 SS 353 90 S 90 SS 351 90 S	S 375 Heath GW21 Heath GW30	90 \$\$ 366 90 \$\$ 360 90 \$\$ 353 90 \$\$ 365	Raytheon TWR-1 Ray Jefferson	90 SS 368 90 SS 366	90 \$Ş 363
Browning Mobilaire Browning S-9	90 SS 367	* Heath GW31	90 SS 353 * * 90 SS 353 *	RCA, (All Units)	90 SS 366	90 SS 358
Cadre 500	90 SS 394 90 S	S 370 Int'l. Executive	90 SS 354 90 SS 361	Realistic CBK1 Regency CBM27	90 SS 366	*
Chickasha (All Units) Citifone CD5	90 SS 366 90 SS 371 90 S	* Int'l. Exec. 50, 100 S 372 Johnson Personal M.	90 SS 354 90 SS 374 ess. 90 SS 353 90 SS 375	RME 4303	90 SS 353	*
Courier I (ECI)	90 SS 373	# Johnson Viking Mag		Sonar Model D	90 SS 366	
D.A.W. (All Units) Dewald TR910	90 SS 366		327 90 \$\$ 354 90 \$\$ 376	Sonar "E", Serial No. 915 and lower	90 SS 377	90 SS 363
Dixon (All Units) Edco (All Units)	90 SS 366 90 SS 366 Spe	* Knight KN-2500 Lafayette HE15	90 SS 366 90 SS 358 90 SS 366 *	Sonar "E", Serial No. 916 and Higher	90 SS 377	90 55 379
Eico 762 Series	90 SS 371	* Lafavette HE20	90 SS 366 90 SS 358	Tel-Rad (All Units)	90 SS 366	90 SS 358
Eico 772 Series General Radiotele-	90 SS 366 90 S	S 356 La Salle LA101	90 SS 366 90 SS 363 90 SS 366 90 SS 363	Transcender 1000 Transpace (All Units)	90 SS 352	
phone MC-1, 2, 3 Gen. Radiotele. MC-4	90 SS 366 90 S 90 SS 354 90 S	\$ 363 Lincoln L2700A, 200	0A 90 SS 366 *	Triumph TC-900 USL R800, TR910	90 SS 353	90 SS 375
Globe CB100	90 SS 366 90 S		ge 55 353 90 SS 375	USL TR1000	90 SS 366	
Globe CB100A Globe CB200	90 SS 366 90 S 90 SS 350 90 S	S 360 Magnavox	90 SS 366 90 SS 363		90 SS 353 90 SS 366	
	90 SS 351 90 S	S 358	90 SS 353 90 SS 375		90 SS 352 90 SS 367	*
Grove Electric Hallicrafters CB2, 3	90 SS 366 90 SS 352 90 S	* Minifone 400M2 Caro Miratel CR117	90 SS 353 90 SS 375 90 SS 366 90 SS 363	Wards, See Airline		i na na na sa
Hallmark (All Units)	90 SS 366	Philmore TC-11	90 SS 371 *		90 SS 368	
Hammarlund/HQ105TR	90 88 366	*			90 SS 366	*

Be Sure to Specify Stock No., and Channel Desired NET EACH 2.50

Antennas for Citizens Band Stations MOBILE CITIZENS BAND ANTENNAS

HV.GAIN

90 SX 126. CMR 50" WHIP/MOUNT. Baseloaded stainless steel whip. With mount, ex fitting. Single hole mtg. 1 ib........NET 8.97 90 SX 130. TLWT 50" TELESCOPING WHIP.

SS and chromed brass. Closes to 28". NET 7.20 24 stud. 12 oz.....

SX 129. TLWT-M WHIP/MOUNT. Above, with

omed body mount, coax fitting.

90 SX 127. TLW-M 50" WHIP/MOUNT. Toploaded for improved radiation and matching.
gged weatherproof coil capsule. Chromeited body mount and coax fitting. 1 ib. . . NET 8.95 SX 128. TLW WHIP. Std. stud. 12 oz..... 6.96

99 CZ 131, BWS. KIT. Cadmiumplated double-tapered spring, stainless 102" whip-bumper unt and strap. 4 lbs. NET 12.96 unt and strap, 4 lbs.....

CZ 141. W-102 102" WHIP. Stainless el, tapered whip. Std. stud. 4 ½ lbs... NET 4.35

ANTENNA SPECIALIST KITS

89 CZ 793. M-23 KIT. 102" stainless whip, coax

89 CZ 794. MB-24 KiT. 102" whip, spring. double chain bumper mount, 20' RG-U, PL-259, hold-down clip. 7 lbs..... NET 18.67

CZ 795. M-24. Above, single-chain mount. pg. wt. 6 lbs.....

90 SX 142, M-67 KIT. 44" base-loaded stainless steel whip with roof-top mount, 12 -58/U, PL-259 connector. 1½ lbs.....NET 15.68

89 SX 796. M-73 KIT. As above, has trunkgroove mount that installs in seconds.

89 SX 797. M-74 KIT. Same as M-67, but with mount for cowl fender or deck-mtg. Ad

NEWTRONICS ANTENNAS

to 27". Tunable to any channel. With integral cowl mount, 5' RG-58/U, PL-259, 1 lb. NET 10.44

90 S 994. C-32 BODY MOUNT. For any tuned whip. Adjusts 180°. Insulator, hdws. 2 lbs. 2.01

N 90 S 995. C-29 SPRING. Stainless steel, Std. 1/2-24 tapped hole, and stud. 1 1/2 lb. 3.06

MARK MOBILE

P HW-11 "HELIWHIPS." Fiberglass-molded loaded whips. HW-11-4 for heavy-duty use; others lightduty types for compact installations. Fit standard or HWM mounts (below). 1 lb.

Stock No.	Type	Length	NET
89 SX 799	HW-11-4	4 ft.	9.95
90 SX 132	HW-11-S4	4 ft.	7.20
90 SX 133	HW-11-S3	3 ft.	7.20
90 SX 134	HW-11-S18	1 1/2 ft.	7.20

R HWC "HELIWHIP" KITS. Light-duty antenna, with cowl mount and 10' RG-58/U coax, PL-259 except *roof-top mount. 2 lbs.

Stock No.	Туре	Length	NET
89 CX 801	HWC-4	4 ft.	9.95
89 CX 804	HWC-3	3 ft.	9.95
89 CX 810	HWC-18 HWR-42*	18" 42"	9.95
89 CU 811	LI AA 15-45.	7.6	14,73

MOUNTING ACCESSORIES, For above, HWM-1 is heavy-duty fiberglas flat-surface mount. HWM-3 is light-duty moided mount with angle mtg.swivel. SA-1 awiyal adantar 1 ih

Stock No.	Type	Use With	NET
89 5 614	HWM-1	All HW-11 whips	7.50
90 S 135		HW-11-S whips HWM-1 mount	4.25 3.00

MOBILE ANTENNA PACKAGES

S 89 CZ 812. includes 102" stainless steel whip, standard chromed double-taper spring. chrome ball mount. Shpg. wt., 6 lbs.... NET 6.95 89 CZ 813. Above, but extra heavy-duty spring, cadmium-plated aluminum-finish ball mtg....8.95

BASE STATION CITIZENS BAND ANTENNAS

NEW MASTER-MOBILE BEAM

89 CZ 815. CBVH-1. Switches from vert. to horiz, polarization, 9-db gain, Aluminum elents, boom 9½'. Requires 2 52-ohm es. With control box, 20½ lbs......NET **44.95**

MOSLEY 3-ELEMENT BEAM

89 CX 316. A-311 BEAM. Mounts horizontally or vertically. Provides approx. 8 times power in. Elements and 12' boom of alumim. 9½' turning radius, 23 lbs.....NET 37.50

ANTENNA SPECIALISTS

90 CZ 278. M-81 "MAGNUM." Omnidirectional antenna provides effective 6 db gain. 5-section avy-wailed aluminum 207" ½-waye radiator, 54" minum radials. Matches 50-ohm transmission es. Fits most all masts, 10 lbs..... NET 27.87

89 CU 817. MC-27 GROUND PLANE, Omnidirectional antenna has 108" aluminum radials and liator. Radials bend to match 50-ohm lines. Fits 1 1 1/4" masts. Takes PL-239. 5 lbs..... NET 15.64

89 SX 818. M-38 ISOLATING SKIRT. For above. Mounts 9' below antenna. Lowers radian angle. Fits 1-1 1/2" mast. 3 lbs...... NET 11.15

89 CZ 819. M-36 COAX ANTENNA. Omnidirectional ½-wave antenna. Mounts on ¾" be. Consists of 9' aluminum radiator on 9' aluminum radiator. m skirt. For 52-ohm lines. Radiator ement accepts PL-259. 61/2 lbs...... NET 19.56

B 89 CZ 820. M-37 VERTICAL 3-ELEMENT BEAM. Provides unidirectional low-angle radion pattern-7 db forward gain and 13 1/2 db front-tock ratio. Boom and elements are of heavy-walled minum tubing. Height, 18'; boom length, 11'. bunts on 1' mast (not supplied). For 52-m coax. Accepts PL-259. 15 lbs..... NET 44.10

CESCO "DUO-POLE"

89 SX 821. Omnidirectional grounded quarterwave antenna of extruded duraluminum tubing. For 52-ohm coax lines. Fits 1 1/4" mast. 110" above mast, 108" radials. 71/2 lbs... NET 29.95

HY-GAIN

89 SX 822. CXL COAXIAL ANTENNA. For inconspicuous roof or side mounting. %" OD aluminum tubing radiator 2" OD aluminum sleeve. Fits 1-1½" mast. Length 18". For 52-ohm coaxial lines. Shpg. wt. 7½ lbs......NET 19.95 89 SX 823. BRP BUMPER MOUNT. 1 1/2 lbs. . 6.57

89 S 545. CW TELESCOPING WHIP. 15" to

FF 89 CZ 824. CLR. COLINEAR GROUND PLANE. 3 db gain, 52-ohms. Aluminum tubing. Height, 20'; 9' radials. Takes mast up to 1 % NET 29.97

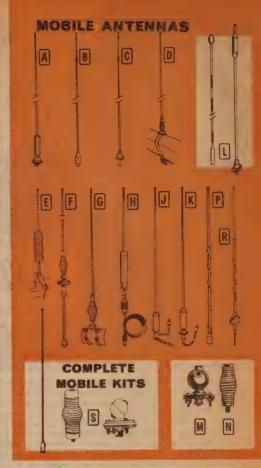
66 52 825. SGP GROUND PLANE. Matches 52 ohms. Radiator and radials %" aluminum tubing for 1%" masts. 5 ibs......16.17

HH 39 CZ 826. 113-B 3-ELEMENT BEAM. 9-db gain, 25 db F/B. 8' boom, 16½' element. 50 ohms. Less mast. 15 lbs......NET 31.50

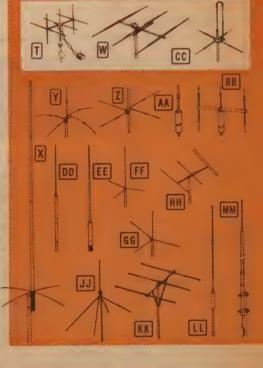
ANTENNEX

JJ 90 CZ 185. CBGP-1 GROUND PLANE. Om-Has 9' radiator, 4—9' radials. Requires 10' mast up to 1%" dia. Wt., 6 lbs.........NET 8.98

Vides 8-db gain, mounts either vertically or horizontally. All-aluminum construction. 9' boom is 90 CZ 279. CBY3 3-ELEMENT BEAM. Pro-1" dia. Elements are ½" dia. Longest element 18'. Turning radius 9'. Accepts masts to 1½". dia. Less mast. 6 lbs......NET 14.95



BASE STATION ANTENNAS



MARK MOBILE

90 CZ 136. NEW CBB-1 "BEACON" VERTI-CAL. Unique ½-wave base station antenna re-quiring no radials or skirts, but with 1 db gain over std. ground planes. Has 17' aluminum radiator, fibergias mtg. section and 50-ohm matching stub. Ex-

NEW "SUPER-BEACON." Full-size, omnidirectional ½-wave vertical antenna provides low radiation angle, 19' radiator has dielectric coating to reduce precipitation static—improves effective receiver sensitivity by up to 20 db. Needs no radials. Use with any 52-ohm line. With instructions and SO-239 fitting. 12 lbs. 0 CZ 186..... NET 36.95



a pleasure to use. Powered by 9 transistors so it's always ready for action—needs no warmup time, operates as soon as you turn it on. Provides consistent, on-thego communications at distances of up to a mile or more. You need no license to operate it, meets FCC requirements for low-power unlicensed units. Features sensitive crystal-controlled superhetrodyne receiver section; full 100% modulation for outstanding "talk-power;" convenient press-to-talk operation. Has speaker that doubles as a sensitive microphone when transmitting. Efficient 57 whip antenna telescopes out of sight when not in use. Compact, sturdy gray metal case measures only 65/x21/x11/x". Complete with carrying case, leather shoulder strap, earphone for private listening, and transmitting and receiving crystals for Channel 7. Less batteries, below (uses 7). Imported from Japan.

90 SC 436-J. \$5 Monthly. EACH ONLY 32.50

55 J 020. 11/2-VOLT PENLIGHT CELL. For above. Takes 7. 2 oz. ... EACH 10c



- 11 Transistors, 4 Diodes
- Noise Limiter, Squelch
- Automatic Volume Control "Push-Pull" Audio Output

ow you can get 10 times the power of most Citizens Band walkie-talkies. The new Viking 1-Watt Personal Messenger doubles your effective operating range. Fits in your hand—circuit contains 11 transistors and 4 diodes. Use it for any of hundreds of 2-way communications applications. Meets FCC requirements for licensed Citizens Band station use.

Offers crystal-controlled superhet receiver section with RF amplifier for double sensitivity. Powerful, 2-stage transmitter section punches your signal home—even at extreme ranges. "Push-pull" audio circuit gives clean voice reproduction.

Reliably engineered, utilizes printed circuit chassis board, moisture-proof speaker-microphone, high-impact case, press-to-talk switch. Also has squeich control, On-Off /Volume control. Plug-in case for penlight cells (uses 8) or rechargeable battery. Telescoping antenna. Has socket for earphone. With transmitting and receiving crystals for one channel. Made in U.S. Less batteries, below, 2 lbs.
90 SC 193-J. \$7 Monthly.....NET 129.95

90 SC 108-J. OPTIONAL RECHARGEABLE NICKEL-CADMIUM BATTERY. For above. Replaces penlight cells. Recharges from any 115 v.

AC outlet. In sealed plug-in battery case.
Wt., 4 oz. NET 19.95 55 J 020. PENLIGHT CELL: Requires WALKIE-TALKIE WITH AM RADIO

Each

- 2 Units In 1—CB Transceiver, AM Radio
- Crystal-Controlled Transmit and Receiv
- No FCC License or Permit Required
- Efficient Nine-Transistor Circuit

Enjoy the convenience of two-way radio communications, or flip a switch a tune in all of your favorite AM broadcast programs. This unique unit provide reliable communications at ranges of up to 1 mile—more over ideal terrain. Us 9 transistors for instant operation and low battery drain. Has crystal-control superhet receiver section, push-pull audio amplifier that delivers fine sour Speaker doubles as mike in transmit position. Also has log-type AM dial, telescoping antenna. 6 1/x2 1/x1 1/2". With batteries (takes 6), leather case, should strap, earpiece, crystals for Channel 10. From Japan. 2½ lbs 90 SC 409-J. \$5 Monthly.

55 J 020. EXTRA 1%-V. PENLIGHT CELL. Takes 6. 2 oz. EACH 1 90 S 025. 9-Volt Battery Charger. For operating any 9-volt Walkie-Talkie fro 110-120 v., 50-60 cycle AC. Also charges batteries. 6 oz.



IN EASY-TO-BUILD KIT FORM

Complete With Rechargeable **Battery**

"Transette" Eico

"TRANSETTE" WALKIE-TALKIE

Fits in your pocket-yet provides reliable 2-way communications at ranges of up to ½ mile. Meets FCC regulations for unlicensed CB units. Uses 4-translators. Has super-regen fixed-tuned receiver section and crystal-controlled 80-mw transmitterfsection, 12 section-40 whip. Maroon case, 5x3x1¹³4. With earphone, leather case, shoulder strap, earphone pouch, crystals for one channel. Less 9-v. battery (below). From Japan. 8 oz. 90 SC 282-J. \$5 Monthly

NET 19.95 55 J 119. 9-V. BATTERY. 2 oz. EACH 21c 2500 Hours On a Single Battery

EICO MODEL 740 WALKIE-TALKIE KIT

Complete 9-transistor walkie-talkie in easy-to-build kit form. Features a nicke Complete 9-transistor walkie-talkie in easy-to-build kit form. Features a nicker cadmium battery that can be recharged overnight. Meets FCC requirements for low power unlicensed CB units. 100-mw.transmitter and receiver sections are crystal-controlled. Has press-to-talk switch, 2½" speaker-mike, 41" whip antenna Battery lasts for 300 recharges, up to 2500 operating hours: 7½x2½x1½". With crystals for Channel 16, instructions. 1½ lbs.

90 SC 177-J. \$5 Monthly.

NET 54.95

90 SC 178. Above, wired and tested. \$5 Monthly.

NET 79.95

Battery Pack Available

Rechargeable

We've reserved a copy of the



1963 ALLIED Catalog 220 for an interested friend of yours

Please fill in his name and address and mail to us . . . or give him this card to mail. We'll be happy to send him his own personal Allied catalog.

NAME	PLEASE			
ADDRESS				
CITY			ZONE	
CTATP				

Chicago 80, Illinois

P.O. Box No. 8528

PLACE

STAMP

RCA Quality Receiving Tubes

RCA—THE GREAT NAME IN ELECTRONIC TUBES—AT NEW LOW PRICES

- Up to 60% Off List Price
- May be Assorted for Quantity-Price Savings
- Always Freshest Stocks—Full One-Year Guarantee
- Get the Tubes You Need on Our Credit Fund Plan

ou can be sure of complete satisfaction when you order ceiving tubes from Allied. We will replace any tube at does not give efficient performance for 12 months om date of purchase. This does not apply to broken bes. *Not made by RCA—other well-known brands pplied. Purchasers of tubes in lots of 15 or more may tain RCA's Receiving Tube Manual at no extra cost—ask r Stock No. 37 K 575. Av. shpg. wt. per tube, 4 oz.; per tubes, $2\frac{1}{2}$ lbs.

ACT NOW!-

Take advantage of our liberal, convenient Credit Fund Planpurchase all of the receiving tubes you need

Tube

Type



List



NET EACH in Quantities of:

1 to 9 | 10 to 49 | 50 or More



from Allied on our dollar-stretching Easy Pay Plan. You can take up to 24 months to pay ... no money down!

Tube	List	NET EAC	CH in Quar	ntities of:
Туре	Price	1 to 9	10 to 49	50 or More
/184/6FG6	\$3.25	1.63	1.46	1.30
74 74A	2.40 2.15	1.20	1.08	.96
24G	2.60	1.08	.97 1.17	1.04
.3	4.95	2.48	2.23	1.98
5GT	4.25	2.13	1.91	1.70
7GT	5.75	- 2.88	2.59	2.30
X2 3GT	3.05 2.90	1.53	1.37	1.22
5GT	5.30	2.65	2.39	2.12
N5	2.50	1.25	1.13	1.00
:3GT/1B3GT	2.90	1.45	1.31	1.16
15GT	4.15	2.08	1.87	1.66
3 (3	2.90 2.90	1.45	1.31	1.16
6	6.80	3.40	3.06	2.72
A6	6.20	3.10	2.79	2.48
B4	8.65	4.33	3.90	3.46
C6	8.30	4.15	3.74	3.32
D5	8.40	4.20	3.78	3.36
E3 G5	6.40	3.20	2.88	2.56
H4	8.05	3.10 4.03	3.63	3.22
N5	8.15	4.08	3.67	3.26
12A	4.65	2.33	2.09	1.86
I5GT	5.20	2.60	2.34	2.08
₹5 2 A *	2.70 3.10	1.35	1.21	1.08
4	4.35	2.18	1.96	F.74
5	2.65	1.33	1.19	1.06
4	2.50	1.25	1.13	1.00
4	2.50	1.25	1.13	1.00
5	2.20 5.85	2.93	.98 2.63	2.34
2	2.10	1.05	.95	.84
2A	3.05	1.53	1.37	1.22
2B	3.05	1.53	1.37	1.22
3 F4B	10.50 4.05	5.25	4.73	4.20
N4	2.55	2.03 1.28	1.82	1.62
N4A	2.55	1.28	1.15	1.02
W4 Nuvistor	4.45	2.23	2.00	1.78
Y5	2.85	1.43	1.28	1.14
S4 Nuvistor N5	4.45	2.23	2.00 .95	1.78
R5	3.50	1.75		1.40
H5	3.05	1.53	1.58	1.22
K5	4.05	2.03	1.82	1.62
2 3	4.85	2.43	2.18	1.94
= 4.0	3.40	1.70	1.53	1.36
L5	4.05 1.85	2.03	.83	.74
U6	2.15	1.08	.97	.86
V6	2.15 1.75	.88	.79	.70
2	9.85	4.93	4.44	3.94
A6 C5	2.15 2.35	1.08	.97	.86
E6	2.35	1.18	1.06	.94
N4A	2.55	1.28	1.15	1.02
N6	3.05	1.53	1.37	1.22
U8	2.85	1.43	1.28	1.14
Y6 Z6	2.35 2.30	1.18	1.06	.94
B6	2.30	1.15	1.04	.92
E5	2.35	1.18	1.06	.94
F6	2.55	1.28	1.15	1.02
			*.	

		1 10 3	10 to 49	on or latore
3CS6	\$2.45	1.23	1.10	.98
3CY5	2.85	1.43	1.28	1.14
3DG4 3DK6	3.40 2.40	1.70	1.53	1.36
3DT6A	2.20	1.20	1.08	.88
3EA5	2.85	1.43	1.28	1.14
3ER5	3.50	1.75	1.58	1.40
3GK5	4.05	2.03	1.82	1.62
3GS8/3BU8	2.85	1.43	1.28	1.14
3LF4	6.40 -	3.20	2.88	2.56
3Q4	3.55	1.78	1.60	1.42
3Q5GT	5.65	2.83	2.54	2.26
3S4 3V4	2.65	1.33	1.19	1.06
4AU6	2.50 2.15	1.25	1.13	1.00
4AV6	1.70			.68
4BC5	2.35	.85 1.18	.77 1.06	.94
4BC8	4.05	2.03	1.82	1.62
4BL8	2.55	1.28	1.15	1.02
4BN6	3.05	1.53	1.37	1.22
4BQ7A	4.20	2.10	1.89	1.68
4BS8 / 7	3.85	1.93	1.73	1.54
4BU8	2.85	1.43	1.28	1.14
4BZ6 3 3 3 4 4BZ7	2.25	1.13	1.01	90
4CB6	2.30	2.03	1.82	1.62
4CS6	2.30	1.15	1.04	.92
4CY5	2.85	1.18	1.06	1.14
4DE6	2.65	1.33	1.19	1.06
4DT6A	2.25	1.13	1.01	.90
4EH7	3.80	1.90	1.71	1.52
4EJ7	3.80	1.90	1.71	1.52
4ES8	4.60	2.30	2.07	1.84
4EW6	2.35	1.18	1.06	.94
4GS8/4BU8	2.85	1.43	1.28	1.14
5AM8 5AN8	3.55	1.78	1.60	1.42
5AQ5	4.00 2.20	2.00	1.80	.88
5AS4A	2.65	1.40	.99	1.06
5AS8	4.15	2.08	1.87	1.66
5AT8	3,65	1.83	1.64	1.46
5AU4	3.40	1.70	1.53	1.36
5AV8	4.05	2.03	1.82	1.62
5AW4	2.80	1.40	1.26	1.12
5AZ4	5.65	2.83	2.54	2.26
5B8	5.30	2.65	2.39	2.12
5BC3 Novar 5BE8	2.30	1.15	1.04	1.32
5BK7A	3.40	1.65	1.53	1.36
5BQ7A	4.05	2.03	1.82	1.62
5B R8	3.65	1.83	1.64	1.46
5BT8	3.30	1.65	1.49	1.32
5BW8	3.40	1.70	1.53	1.36
5CG8	3.25	1.63	1.46	1.30
5CL8A	3.15	1.58	1.42	1.26
5CM8	3.80	1.90	1.71	1.52
5CQ8 5CZ5	3.35 4.35	1.68	1.51	1.34
5DH8	4.50	2.18	2.03	1.74
5DJ4	2.20	1.10	.99	.88
5EA8	3.15	1,58	1,42	1.26
5EU8	3.35	1.68	1.51	1.34
5EW6	2.35	1.18	1.06	.94
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RCA Receiving Tubes (Cont'd)_____

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES NET EACH In Quantities of I Table NET EACH IN QUANTITIES NET EAC									
Tube	List		H In Quar		Tube	List			
Туре	Price	1 to 9		50 or More	Туре	Price	1 to 9	10 to 49	50 or Mos
5FG7 5FV8	\$2.75 3.15	1.38	1.42	1.10	6BG6G 6BH3 Novar	\$6.80 2.95	3.40	3.06 1.33	2.72
5GH8 :	3.20	1.60	1.44	1.28	6BH6 6BH8	2.70 3.50	1.35	1.21	1.08
5GM6 5GX6	2.40 2.35	1.20	1.08	.96	6BJ6	2.60	1.30~	1.17	1.04
5J6	2.85	1.43	1.28	1.14	6BJ7	3.15	1.58	1.42	1.26
5T4 5T8	12.10 3.40	6.05 1.70	5.45 1.53	4.84	6BJ8 6BK4	3.50 8.00	1.75 4.00	1.58 3.60	1.40 3.20
5U4G	2.10	1.05	.95	.84	6BK5 6BK7B	3.70	1.85	1.67	1.48
5U4GB 5U8	3.30	1.05	.95	.84	6BL7GTA	3.40	1.70	1.53	1.58
5V3A	3.85	1.65	1.49	1.32	6BL8	3.95	1.98	1.78	1.58
5V4GA 5V6GT	3.50 2.20	1.75	1.58	1.40	6BM8* 6BN4A	3.05 2.50	1.53	1.37	1.22
5X4G	3.35	1.68	1.51	1.34	6BN6	2.95	1.48	1.33	1.18
5X8 5Y3GT	3.30 1.75	1.65 .88	1.49 .79	1.32	6BN8 6BQ5	3.05 2.35	1.53	1.37	1.22
5Y4GA	2.60	1.30	1.17	1.04	6BQ6GTB/6CU6	4.35	2.18	1.96	1.74
5Y4GT 5Z3	2.65 3.30	1.33	1.19	1.06	6BQ7A 6BR8A	3.95 3.65	1.98	1.78	1.58 1.46
5Z4	8.35	4.18	3.76	3.34	6BS8	3.75	1.88	1.69	1.50
6A7 6A8	8.50 6.85	4.25	3.82 3.08	3.40	6BU8 6BV8	2.80 3.15	1.40	1.26	1.12
6A8G	8.60	4.30	3.87	3.44	6BW4	2.90	1.45	1.31	1.16
6A8GT	8.60	4.30	3.87	3.44	6BW8	3.50	1.75	1.58	1.40
6AB4 6AB5/6N5	2.15 8.05	1.08 4.03	.97 3.63	.86 3.22	6BX7GT 6BY5GA	4.00 5.10	2.00 2.55	1.80	1.60
6AB7 6AC5GT	8.25	4.13	3.72	3.30	6BY6 6BY8	2.50 2.65	1.25	. 1.13	1.00
6AC7	6.25 5.10	3.13 2.55	2.81	2.50 2.04	6B Z 6	2.05	1.33	1.19	.90
6AD7G	9.40	4.70	4.23	3.76	6BZ7	4.00	2.00	1.80	1.60
6AF3 6AF4	2.90 4.00	2.00	1.31	1.16 1.60	6BZ8 6C4	4.45 1.85	.93	2.00 .83	1.78
6AF4A 6AF6G	4.00	2.00	1.80	1.60	6C5 6C6	4.25	2.13	1.91	1.70 3.32
6AG5	2.75	3.10	2.79	1.10	6C8G	8.55	4.15	3.74	3.42
6AG7	6.20	3.10	2.79	2.48	6CA4	1.95	.98	.88	.78
6AH4GT 6AH6	3.45 4.70	1. 7 3 2.35	1.55 2.12	1.38	6CA5 6CB5A	3.15 8.25	1.58 4.13	1.42 3.72	1.26 3.30
6AK5	4.40	2.20	1.98	1.76	6CB6A	2.25	1.13	1.01	.90
6AL3 6AL5	2.75 1.85	1.38	.83	1.10 .74	6CD6GA 6CE5	5.80 2.35	2.90	2.61	2.32
6AL7GT	5.75	2.88	2.59	2.30	6CF6	2.55	1.28	1.15	1.02
6AM4 6AM8A	5.90 3.45	2.95 1.73	2.66 1.55	2.36 1.38	6CG7 6CG8A	2.45 3.30	1.23	1.10	.98 1.32
6AN4	6.55	3.28	2.95	2.62	6CH8	5.20	2.60	2.34	2.08
6AN8A 6AQ5A	4.00	2.00	1.80 .97	1.60	6CK4 6CL6	3.00	1.50	1.35	1.20
6AQ6	2.60	1.30	1.17	1.04	6CL8A	3.15	1.58	1.42	1.26
6AQ7GT 6AQ8	3.15	2.00	1.80	1.60	6CM6	2.90	1.65	1.49	1.32
6AR5	2.65	1.58	1.42	1.06	6CM8	4.25	2.13	1.91	1.16
6AS5 6AS8	2.40	1.20	1.08	.96 1.52	6CN7 6CQ4	2.75 3.00	1.38	1.24	1.10
6AT6	1.90	.95	.86	.76	6CQ8	3.30	1.65	1.49	1.32
6AT8A 6AU4GTA	3.80 3.60	1.90	1.71	1.52	6C R6 6CS6	2.40 2.35	1.20	1.08	.96
6AU5GT	4.30	2.15	1.94	1.72	6CS7	2.95	1.18	1.06	1.18
6AU6A 6AU8A	2.10 3.50	1.05	.95 1.58	.84	6CU5 6CU6	2.35	1.18 Use	1.06 6BQ6GTB/	.94 6CU6
6AV5GA	4.00	2.00	1.80	1.60	6CU8	4.15	2.08	1.87	1.66
6AV6 6AW8A	1.65 3.70	.83	.74 1.67	.66 1.48	6CW4 Nuvistor 6CX8	4.45 3.65	2.23	2.00	1.78
6AX3	2.45	1.23	1.10	.98	6CY5	2.75	1.83	1.64	1.46
6AX4GTB	2.65	1.33	1.19	1.06	6CY7	3,20	1.60	1.44	1.28
6AX5GT 6AX8	3.10 3.70	1.55	1.40	1.24	6CZ5 6D6	4.10 7.80	2.05	1.85 3.51	3.12
6AY3 Novar 6AZ8	2.75 5.55	1.38	1.24	1.10	6DA4A 6DB5	2.70 5.30	1.35	1.21	1.08
6B4G*	15.05	7.53	2.50 6.78	6.02	6DC6	3.40	2.65	2.39	2.12
6B8	7.30	3.65	3.29	2.92	6DC8	3.20	1.60	1.44	1.28
6BA3 Novar 6BA6	2.75	1.38	.90	1.10	6DE4 6DE6	2.80	1.40	1.26	1.12
6BA7 6BA8A	5.95 3.85	2.98	2.68	2.38	6DE7	3.40	1.70	1.53	1.36
6BC4	4.90	1.93	1.73	1.54	6DG6GT	2.55	1.28	1.15	1.02
6BC5	2.55	1.28	1.15	1.96	6DN6	2.35 7.45	3.73	3.36	2.98
6BC7 6BC8	3.80	2.00	1.71	1.52	6DN7 6DQ5	3.50 8.35	1.75	1.58	1.40 3.34
6BD6	2.45	1.23	1.10	.98	6DQ6B	4.15	2.08	1.87	1.66
6BE6	2.20	1.10	.99	.88	6DR4*	1.85	.93	.83	.74
6BF5 6BF6	3.55	1.78	1.60	1.42	6DR7 6DS4 Nuvistor	3.40 4.45	1.70	2.00	1.36

RCA Receiving Tubes

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

Extra Savings When You Buy More Than 9 Tubes

The first net price column (1 to 9), is for orders of less than 10 tubes. If you buy 10 or more tubes of any one type or assorted types (and up to a total of 49),

use the prices in the second net price column (10 to 49). For 50 tubes and over, use the third price column (50 or More). Take advantage of these quantity prices!



Tube	List	NET EACH In Quantities of:				
Туре	Price	1 to 9	10 to 49	50 or More		
55 T 5	\$3.20 3.25	1.60	1.44	1.28		
T6A	2.15	1.08	.97	1.30		
T8 :	3.80	1.90	1.71	1.52		
N4 Novar	3.70	1.85	1.67	1.48		
N5	4.05	2.03	1.82	1.62		
X8	3.10	1.55	1.40	1.24		
27	5.45	2.73	2.45	2.18		
A5	4.45 2.80	2.23	1.26	1.78		
17	3.45	1.73	1.55	1.38		
18	2.70	1.75	1.21	1.08		
38	3.70	1.85	1.67	1.48		
15 : ./	2.90	1.45	1.31	1.16		
17	3.80	1.90	1.71	1.52		
18	3.15	1.58	1.42	1.26		
7	3.80	1.90	1.71	1.52		
V15 V17	3.40 5.10	1.70 2.55	2.30	1.36		
27	2.90	1.45	1.31	1.16		
35	3.50	1.75	1.58	1.40		
5	3.05	1.53	1.37	1.22		
8	5.80	2.90	2.61	2.32		
J7	2.60	1.30	1.17	1.04		
18	3.30	1.65	1.49	1.32		
/5	3.00	1.50	1.35	1.20		
/7 N6	2.50	1.25	1.13	1.00		
N7 Novar	3.90	1.95	1.76	1.56		
K6	7.25	3.63	3.27	2.90		
16	3.15	1.58	1.42	1.26		
.5	3.40	1.70	1.53	1.36		
28	3.80	1.90	1.71	1.52		
	4.60	2.30	2.07	1.84		
	5.85	2.93	2.63	2.34		
G	5.85	2.93	2.63	2.34		
GT	5.85	2.93 5.85	2.63	2.34		
G F	8.95	4.48	4.03	3.58		
17	2.50	1.25	1.13	1.00		
D7	5.05	2.53	2.27	2.02		
G6 (T U	se EM84/6I	FG6		
37	2.75	1.38	1.24	1.10		
15 18	2.55	1.28	1.15	1.02		
VI8	3.00		1			
VI8 25A	4.05	2.03	1.35	1.20		
27	2.30	1.15	1.04	.92		
55 (8)	3.05	1.53	1.37	1.22		
/6 - 1	3.55	1.78	1.60	1.42		
/8	3.15	1.58	1.42	1.26		
N5	4.10	2.05	1.85	1.64		
6G	7.20	3.60	3.24	2.88		
C5) / / / / / / / / / / / / / / / / / /	3.20	1.60	1.44	1.28		
J5 Novar	4.55	2.28	2.05	1.82		
K5	4.05	2.28	1.82	1.62		
K6	2.75	1.38	1.24	1.10		
M6	2.40	1.20	1.08	.96		
N8	3.70	1.85	1.67	1.48		
T5 Novar	4.20	2.10	1.89	1.68		
W6	4.15 2.30	2.08	1.87	1.66		
X6 Y6	2.30	1.15	1.04	.92		
Y8	3.80	1.90	1.71	1.52		
6 ;	4.00	2.00	1.80	1.60		
R6 '''	3.10	1.55	1.40	1.24		
F8	3.70	1.85	1.67	1.48		
J8	3.30	1.65	1.49	1.32		
56	2.50	1.25	1.13	1.00		
58	2.80	1.40	1.26	1.12		
GT	3.65	1.83	1.64	1.46		
A	2.80	1.83	1.64	1.45		

Tube	List	NET EAC	H In Quar	ntities of:
Туре	Price	1 to 9	10 to 49	50 or More
6JC8	\$2.90	1.45	1.31	1.16
6JU8	4.35 2.95	2.18	1.96	1.74
6K6GT 6K7	2.65 4.95	- 1.33	1.19	1.06
6K7GT	4.95	2.48	2.23	1.98
6K8	7.50	3.75	3.38	3.00
6K11 6KA8	3.50 3.80	1.75	1.58	1.40
6L6	8.60	4.30	3.87	3.44
6L6GC	4.20	2.10	1.89	1.68
6L7 6N5	7.35	3.68 U	3.31 se 6AB5/6N	1 2.94 15
6N7 6N7GT	5.00	2.50	2.25	2.00
6Q7	5.00	2.50	2.25	2.00
6Q7GT	5.65	2.83	2.54	2.26
6R7 6S4A	5.45 2.05	2.73	2.45 .92	2.18
6S7	7.20	3.60	3.24	2.88
6S8GT	4.40	2.20	1.98	1.76
6SA7GT	4.30	2.15	1.94	1.72
6SB7Y 6SC7	4.20	2.10	2.84	2.52
6SF5	3.70	1.85	1.67	1.48
6SF5GT 6SF7	3.20	1.60	1.44	1.28
6SG7	6.25 4.60	2.30	2.81	2.50
6SH7	4.45	2.23	2.00	1.78
6SJ7 6SJ7GT	4.15 4.15	2.08	1.87	1.66
6SK7	3.95	1.98	1.78	1.58
6SK7GT 6SL7GT	3.95 3.50	1.98	1.78	1.58
6SN7GTB	2.60	1.30	1.17	1.04
6SQ7 6SQ7GT	3.75 3.80	1.88	1.69	1.50
6S R7	3.90	1.95	1.76	1.56
6SS7 6T4	5.50	2.75	2.48	2.20
6T8A	3.40	1.70	1.53	1.36
6U5 (1) 6U8A	5.55 3.30	2.78	2.50	1.32
6V3A	4.55	2.28	2.05	1.82
6V6 6V6GTA	6.75 2.15	3.38	3.04	2.70
6W4GT	2.40	1.20	1.08	.96
6W6GT 6X4	2.85 1.65	1.43	1.28	.66
6X5GT	2.10	1.05	.95	.84
6X8 6Y6G	3.15 4.30	2.15	1.42	1.26
6Y6GA	4.30	2.15	1.94	1.72
6Z4 7A4	7.50		Use 84/6Z4	3.00
7A5	6.00	3.75 3.00	3.38 2.70	3.00
7A6 7A7	7.40 7.55	3.70	3.33	2.96
7A8	8.25	4.13	3.72	3.30
7AF7 7AG7	6.00	3.00	2.70	2.40
7AH7	8.40 6.40	4.20 3.20	3.78 2.88	3.36 2.56
7AU7 7B4	2.60 7.20	3.60	3.24	1.04
7B5	8.85	4.43	3.99	3.54
7B6 7B7	5.60 8.10	2.80 4.05	2.52 3.65	2.24 3.24
7B8	5.95	2.98	2.68	2.38
7C5 7C6	7.75	1.75	1,58	1.40
7C7	3.60	3.88	3.49 1.62	1.44
7E7	. 6.70	3.35	3.02	2.68
RECEIVI	NG TUBES C	ONTINUED C	N NEXT PA	GE

RCA Receiving Tubes (Cont'd)_____

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

97	1 1	NET FA	CH In Quar		1	DRILD	NET FA	CH In Qua	ntitios of
Tube Type	List Price	1 to 9	10 to 49	50 or More	Tube Type	List -	1 to 9	10 to 49	50 or Mc
7EY6 7F7	\$3.15 7.95	1.58	1.42	1.26	12BY7A 12B Z 6	\$3.05	1.53	1.37	1.22
7F8	8.75	3.98 4.38	3.58 3.94	3.18 3.50	12BZ7	3.10 4.40	2.20	1.40	1.24
7G7	6.40	3.20 3.20	2.88	2.56 2.56	12C5 12C8	9.70	Use 120	U5/12C5 4.37	3.88
7J7	7.25	3.63	3.27	2.90	12CA5	2.50	1.25	1.13	1.00
7K7	8.60 7.55	4.30 3.78	3.87 3.40	3.44	12CN5 12CR6	3.45 2.40	1.73	1.55	1.38
7Q7 7R7	6.20	3.10	2.79 2.72	2.48	12CT8 12CU5/12C5	4.25 2.35	2.13	1.91	1.70
7V7	4.90	2.45	2,21	1.96	12CU6			GTB/12CU	
7W7 7X7	7.00 8.10	3.50 4.05	3.15 3.65	2.80 3.24	12CX6 12D4	2.90 2.75	1.45	1.31	1.16
7Y4 7Z4	7.15 6.90	3.58 3.45	3.22 3.11	2.86 2.76	12DB5 12DE8	2.75	1.38	1.24	1.10
8AU8	4.05	2.03	1.82	1.62	12DK6	2.40	1.20	1.08	.96
8AW8A 8BA8A	3.70 3.65	1.85	1.67	1.48 1.46	12DK7 12DL8	2.95 5.80	2.90	1.33	1.18
8BH8 8BN8	3.55 3.25	1.78	1.60	1.42	12DQ6B 12DQ7	4.20 3.45	2.10	1.89	1.68
8BQ5	2.40	1.20	1.08	.96	12DS7	3.40	1.70	1.53	1.36
8CG7 8CM7	2.50 2.90	1.25 1.45	1.13	1.00	12DT5 12DT8	3.05 3.80	1.53	1.37	1.22
8CN7 8CS7*	2.80 2.95	1.40	1.26	1.12	12DU7 12DV8	4.05	2.03	1.82	1.62
8CX8	3.85	1.93	1.73	1.54	12DW7	3.25	1.63	1.46	1.42
8EB8 8EM5	3.75 3.45	1.88	1.69	1.50	12DW8* 12DY8	3.55	1.78	1.60	1.42
8ET7 8FQ7	4.40 2.35	2.20	1.98	1.76	12 DZ 6 12 EA 6	2.55	1.28	1.15	1.02
8GN8	3.75	1.18	1.69	1.50	12EC8	3.60	1.33	1.19	1.06
8KA8 9AU7	3.85	1.93	1.73	1.54	12ED5 12EG6	2.85 2.55	1.43	1.28	1.14
9BR7 9CL8	3.35 3.15	1.68	1.51	1.34	12EH5	2.90	1.45	1.31	1.02
9U8A	3.55	1.78	1.60	1.42	12EK6 12EL6	$\frac{2.55}{2.00}$	1.00	.90	1.02
10C8 10DE7	4.25 3.40	2.13	1.91	1.70	12EN6 12EQ7	3.05	1.53	1.37	1.22
10DR7 10EG7	2.95 4.60	1.48	1.33	1.18	12F8	2.75	1.45	1.31	1.16
10EM7	3.70	1.85	1.67	1.84	12FK6 12FM6	$\frac{2.10}{2.00}$	1.05	.95	.84
10HF8 11CY7	3.75 3.25	1.88	1.69	1.50	12FQ8 12F R8	2.95	1.48	1.33	1.18
12A8GT 12AB5	8.85	4.43	3.99	3.54	12FV7	4.35 3.65	2.18 1.83	1.96	1.74
12AC6	$\frac{2.45}{2.20}$	1.10	.99	.98	12FX8 12GA6	2.30	1.90	1.71	.92
12AD6 12AE6A	2.40 2.05	1.20	1.08	.96 .82	12GC6	4.20	2.10	1.89	1.68
12AE7 12AF3	3.75	1.88	.92 1.69	1.50	12GJ5 Novar 12GT5 Novar	4.60 4.25	2.30	1.91	1.84
12AF6	2.90	1.45	1.31	.94	12H6 12J5GT	3.95 4.35	1.98	1.78	1.58
12AH7GT 12AJ6	5.55	2.78 1.28	2.50	2.22	12J7GT	7.40	2.18 3.70	1.96 3.33	1.74 2.96
12AL5	1.90	.95	.86	1.02 .76	12J8 12K5	4.60 2.95	2.30 1.48	2.0 7 1.33	1.84
12AL8 12AQ5	2.60	1.30	2.95	1.04	12K7GT 12K8	$\frac{7.00}{8.70}$	3.50 4.35	3.15	2.80
12AT6 12AT7	1.85	.93	.83	.74	12L6GT 12Q7GT	2.50	1.25	3.92	3.48
12AU6 12AU7A	2.15	1.08	.97	.86	12 R5	5.80 3.10	2.90 1.55	1.40	1.24
12AV5GA	$\frac{2.45}{3.85}$	1.23	1.10	.98 1.54	12SA7 12SA7GT	4.30	2.15	1.94	1.72
12AV6 12AV7	1.65	.83	.74	.66	12SC7	5.50	2.15	1.94 2.48	2.20
12AW6 12AX4GTB	3.30	1.65	1.60	1.42	12SF5 12SF7	4.10 6.60	2.05 3.30	1.85	1.64 2.64
12AX7	$\frac{2.70}{2.55}$	1.35	1.21	1.08	12SG7 12SH7	5.75	2.33	2.09	1.86
12AX7A 12AY3 Novar	2.55	1.28	1.15	1.02	12SJ7	4.20	2.10	2.59 1.89	1.68
12AY7	5.00	2.50	1.26 2.25	2.00	12SK7 12SK7GT	3.95 3.95	1.98	1.78 1.78	1.58
12AZ7A 12B4A	$\frac{3.05}{2.70}$	1.53	1.37	1.22	12SL7GT 12SN7GTA	$\frac{3.75}{2.70}$	1.88	1.69	1.50
12BA6 12BA7	1.65 5.95	.83	.74	.66	12SQ7	3.75	1.88	1.21	1.08
12BD6 ;	2.45	1.23	2.68	2.38	12SQ7GT 12SR7	3.75 5.45	1.88	1.69 2.45	1.50
12BE6 12BF6	2.20	1.10	.79	.70	12U7 12V6GT	$\frac{2.65}{2.15}$	1.33	1.19	1.06
12BH7A 12BK5	3.05 4.00	1.53	1.37	1.22	12W6GT	3.00	1.08	.97	.86 1.20
12BL6	2.30	2.00	1.80	.92	12X4 13DE7	1.90 3.40	.95 1.70	.86 1.53	1.36
12BQ6GTB/12CU6 12BR7	4.45 3.20	2.23	2.00	1.78	13 D R7 13 E M 7	3.40	1.70	1.53	1.36
12BV7 12BW4	3.20	1.60	1.44	1.28	13FD7	4.75 5.35	2.38	2.14	1.90
120114	2.90	1.45	1.31	1.16	14A7	5.90	2.95	2.66	2.36

RCA Receiving Tubes — Argos Tube Caddies

RCA RECEIVING TUBES (Cont'd)

	1 - 1	NET EAC	H In Quan	tition of		1 1	NET FAC	H In Quan	titios of
Tube km	List .	1 to 9	10 to 49	50 or More	Tube Type	List Price	1 to 9	10 to 49	50 or More
Type F7	\$6.05	3.03	2.72	2.42	34GD5	\$2.10	1.05	.95	.84
	5.60	2.80	2.52	2.24	34G D5A	2.10	1.05	.95	.84
6 7 7	6.00	3.00	2.70	2.40	35A5	6.00	3.00	2.70	2.40
7	8.15	4.08	3.67	3.26	35B5 (75%) (7)	3.40	1.70	1.53	1.36
8	6.70	3.35	3.02	2.68	35C5	2.15	1.08	.97	.86
T8	3.00	1.50	1.35	1.20	35DZ8	3.45	1.73	1.55	1.38
7	6.20 7.20	3.10	2.79	2.48	35EH5 35GL6	2.30	1.15	1.04	.92
W6*	2.35	3.60	3.24 1.06	2.88	35L6GT	2.40	1.20	1.08	.96
IB6	3.30	1.65	. 1.49	1.32	35W4	1.05	.53	.47	.42
X4GT	2.70	1.35	1.21	1.08	35Y4	4.80	2.40	2.16	1.92
Y3 Novar	2.80	1.40	1.26	1.12	35 Z 3	5.00	2.50	2.25	2.00
H3 Novar	3.05	1.53	1.37	1.22	35Z4GT	2.70	1.35	2 1.21	1.08
Q6GTB	5.55	2.78	2.50	2.22	35Z5GT 36AM3B	1.85	.93 . 7 5	.83	.74
9	7.60	3.80	3.42	3.04		5.80		2.61	2.32
)4)E4	2.75 2.85	1.38	1.24	1.10	41 42	5.80	2.90 2.58	2.61	2.32
M4	2.85	1.43	1.28	1.14	43	7.60	3.80	3.42	3.04
Q6B	4.20	2.10	1.89	1.68	47	9.15	4.58	4.12	3.66
J5 Novar	4.60	2.30	2.07	1.84	50A5	6.25	3.13	2.81	2.50
T5 Novar	4.25	2.13	1.91	1.70	50B5	2.95	1.48	1.33	1.18
iW6	4.25	2.13	1.91	1.70	50C5	2.15	1.08	.97	.86
13	2.50	1.25	1.13	1.00	50DC4 50EH5	1.55	.78 1.15	.70	.62
5 W6	4.15 2.00	2.08 1.00	1.87 .90	1.66	50FE5	3.65	1.83	1.64	1.46
	$\frac{2.00}{2.15}$.86	50FK5	2.30	1.15	1.04	.92
X6 Y6	1.65	83.1	.97	.86	50L6GT	2.55	1.28	1.15	1.02
D6A	2.15	1.08	.97	.86	50X6	6.20	3.10	2.79	2.48
.U4	3.50	1.75	1.58	1.40	50Y6GT	4.60	2.30	2.07	1.84
.U4GTA	3.45	1.73	1.55	1.38	50Y7GT	4.50	2.25	2.03	1.80
G6GA	6.50	3.25	2.93	2.60	60FX5	2.50	1.25	1.13	1.00
L8A	3.15	1.58	1.42	1.26	70L7GT 75	10.15	5.08 3.40	4.57 3.06	4.06
A8 IS6	3.25 2.55	1.63 1.28	1.46 1.15	1.30	78	7.20	3.60	3.24	2.88
6	3.95	1.98	1.78	1.58	80	4.20	2.10	1.89	1.68
'8	3.40	1.70	1.53	1.36	84/624	3.65	1.83	1.64	1.46
(8	4.35	2.18	1.96	1.74	117L7/117M7GT	10.15	• 5.08	4.57	4.06
Z7	3.65	1.83	1.64	1.46	117M7GT	47.00		17L7/117M	
H3 Novar	3.05	1.53	1.37	1.22	117N7GT 117P7GT	13.60	6.80 6.80	6.12	5.44
)E4	3.10	1.55	1.40	1.24		_		1,96	1.74
VECA	6.60 4.25	3.30	2.97 1.91	2.64	117Z3 117Z6GT	4.35	2.18 3.55	3.20	2.84
V5GA X4GT	2.90	2.13 1.45	1.31	1.16	5642*	7.90	3.95	3.56	3.16
K5	3.65	1.83	1.64	1.46	5879	3.75	1.88	1.69	1.50
Q6GTB/25CU6	4.65	2.33	2.09	1.86	5881	6.40	3.20	2.88	2.56
;5	2.15	1.08	.97	.86	6973	4.50	2.25	2.03	1.80
:A5	2.60	1.30	1.17	1.04	7025	2.95	1.48 3.30	1.33	1.18
:D6GB	5.85	2.93	2.63 5BQ6GTB/	2.34	7027A 7167*	3.85	1.93	1.73	1.54
;U6 >N6	5.55	2.78	2.50	2.22	7189	2.65	1.33	1.19	1.06
:C6	5.70	2.85	2.57	2.28	7199	3.70	1.85	1.67	1.48
:H5	2.30	1.15	1.04	.92	7247	2.85	1.43	1.28	1.14
.6	8.85	4.43	3.99	3.54	7355*	2.70	1.35	1.21	1.08
.6GT	2.35	1.18	1.06	.94	7408	2.15	1.08	.97	.86
V4GT	2.70	1.35	1.21	1.08	7543	3.10	1.55		1.18
15	4.60	2.30	2.07	1.84	7591 Nov. 1 300A	2.95	1.48	1.33	1.18
:6GT	2.90 5.40	1.45 2.70	2.43	1.16	7868 Novar	3.30	1.65	1.49	1.32
:Т5	2.20	1.10	.99	.88	1000 Hovat	0.00	% -		
	1 2.20	1	,,		·				

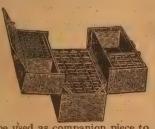
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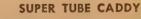
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					Type Ito.								
Ste	ock No.	Wt	NET	St	ock No.	Wt.,	NET	St	ock No.	Wt.,	NET		
Dept.	Tube Type	Lbs.	EACH	Dept.		Lbs.	EACH	Dept.	Tube Type	Lbs.	NET EACH		
AU3	8DP4*	4	25.67	AU3	17RP4C	16	·Use 17HP4B	AU3	21CZP4		Use 21DEP		
AU3 AU3	10BP4A* 10FP4A	13 13	29.10 31.06	AU3 AU3	17TP4* 17UP4	10	31.75 Use 17QP4A	AU3 AU3	21DAP4 21DEP4		Use 21DEP Use 21DEP		
AU3	12KP4A	17	30.70	AU3	17VP4		Use 17LP4A	AU3	21DEP4A	26	32.42		
AU3	12LP4A*	17	30.70	AU3	17VP4B		Use 17LP4A	AU3	21DFP4	33	32.42 32.42		
AU3	14ATP4	12	25.14	AU3	17YP4 19AFP4	24 24	Use 17QP4A	AU3	21DLP4	30	29.98		
AU3 AU3	14BP4 14CP4		Use 14EP4 Use 14EP4	AU3 AU3	19AFF4 19AP4B*	24	39.20 32.02	AU3 AU3	21DMP4 21DNP4		Use 21FAP4 Use 21CBP4		
AU3	14EP4*	14 14	28.74 27.77	AU3	19AVP4	19	32.90	AU3	21DQP4		Use 21DLP4		
AU3	14HP4*	14		AU3	19AXP4		Use 19AYP4	AU3	21DSP4	34	29.98		
AU3 AU3	14NP4 14NP4A		Use 14WP4 Use 14WP4	AU3 AU3	19AYP4 19XP4	20 24	32.90 32.90 Use 20DP4C	AU3 AU3	21EP4 21EAP4		Use 21 EP4H Use 21 FDP4		
AU3	14QP4A	10	30.06	AU3	20CP4		Use 20DP4C	AU3	21EMP4		Use 21 EOP4		
AU3	14RP4A		Use 14WP4	AU3	20CP4A 20CP4B	1	Use 20DP4C	AU3	21EP4B	34	30.90		
AU3	14SP4 14WP4	4.0	Use 14WP4 30.06	AU3 AU3	20CP4B		Use 20DP4C Use 20DP4C	AU3	21EQP4		32.42		
AU3 AU3	14WP4 14ZP4	12	Use 14WP4	AU3	20CP4D		Use 20DP4C	AU3 AU3	21ESP4 21FAP4	26	Use 21FAP4		
AU3	16AP4A*	17	28.29 29.40	AU3	20DP4		Use 20DP4C	AU3	21FDP4	26	41.28		
AU3 AU3	16DP4A* 16GP4B*	23 16	29.40 27.77	AU3 AU3	20DP4A 20DP4B		Use 20DP4C Use 20DP4C	AU3 AU3	21FLP4 21FP4		32.42 41.28 Use 21CBP4 Use 21FP40		
AU3	16KP4	- 10	Use 16RP4A	AU3	20DP4C	29	33.32	AU3	21FP4A		Use 21 FP40		
AU3	16KP4A		Use 16RP4A	AU3	20HP4		Use 20HP4D	AU3	21FP4C	34 25 31	30.90		
AU3	16LP4A* 16RP4A	25	32.66 30.06	AU3 AU3	20HP4B 20HP4C		Use 20HP4D Use 20HP4D	AU3	21MP4*	25	35.94		
AU3 AU3	16TP4*	25 21 21	30.06	AU3	20HP4D	29	33.32	AU3 AU3	21WP4A 21XP4A	31	30.90 35.94 32.42 32.42		
AU3	16WP4A*	21	32.66	AU3	20LP4		Use 20HP4D	AU3	21 V P4 A	33	29.33 Use 21ZP4B 29.98 40.28 Use 23BKP		
AU3	16ZP4		Use 16LP4A	AU3	20MP4		Use 20HP4D	AU3	21ZP4 21ZP4B 23AHP4	33	Use 21ZP4B		
AU3 AU3	17AP4 17ATP4	• • • • • • • • • •	Use 17BP4B	AU3 AU3	21ACP4 21ACP4A		Use 21AMP4A Use 21AMP4A	AU3 AU3	21ZP4B	33 36	29.98		
AU3	17ATP4 17ATP4A		Use 17BJP4 Use 17BJP4	AU3.	21AFP4		Use 21 YP4A	AU3	23ANP4		Use 23BKP4		
AU3	17AVP4A	17	Use 17BJP4	AU3	21ALP4		Use 21CBP4A	AU3	23AWP4		Use 23BIP4		
AU3 AU3	17BJP4 17BP4*		26.17 Use 17BP4B	AU3 AU3	21ALP4A 21ALP4B		Use 21 CBP4A	AU3	23BJP4	35	40.28 47.04		
AU3	17BP4B	21	25.48	AU3	21AMP4		Use 21CBP4A Use 21CBP4A Use 21AMP4A	AU3 AU3	23BKP4 23BLP4	45 45	48.34		
AU3	17BP4C		Use 17BP4B	AU3	21AMP4A	27	29.98	AU3	23CP4	41	48.34 47.04		
AU3	17BRP4 17BUP4		Use 17DSP4	AU3	21ANP4 21ANP4A		Use 21CBP4A Use 21CBP4A	AU3	23EP4	41	47.04		
AU3 AU3	17BVP4		Use 17BJP4 Use 17CSP4 Use 17CSP4	AU3 AU3	21AP4*	25	33.98	AU3 AU3	23GP4 23HP4	********	Use 23CP4 Use 23CP4		
AU3	17BWP4	14	Use 17CSP4	AU3	21AQP4		Use 21AMP4A	AU3	23MP4	41	40.28 Use 23YP4		
AU3	17BZP4		29.13	AU3	21AQP4A		Use 21AMP4A	AU3	23XP4				
AU3 AU3	17CAP4 17CBP4	* * * * * * * * * * * * * * * * * * * *	Use 17DSP4 Use 17BIP4	AU3 AU3	21ATP4 21ATP4A		Use 21CBP4A Use 21CBP4A	AU3 AU3	23YP4 24ADP4	45	47.04 Use 24CP4A		
AU3	17CDP4	14 17	Use 17BJP4 37.17 26.17	AU3	21ATP4B		Use 21CBP4A	AU3	24AEP4	43 37	43.16		
AU3 AU3	17CFP4 17CKP4		26.17 Use 17DSP4	AU3 AU3	21AUP4 21AUP4A		Use 21AVP4B Use 21AVP4B	AU3	24AHP4		43.16 47.28 Use 24AHP4		
AU3	17CLP4		Use 17B1P4	AU3	21AUP4B	• • • • • • • •	Use 21AVP4B Use 21AVP4B	AU3	24ALP4 24ANP4		Use 24AEP4		
AU3	17CP4*	16	27.44 29.79	AU3	21AVP4A		Uge 21 AVP4R	AU3	24ANP4 24ATP4	39	56.09		
AU3	17CSP4	13	29.79	AU3	21AVP4B	33	29.98 29.98	AU3	24AUP4	39	43.16		
AU3 AU3	17CWP4 17CYP4	17	Use 17DSP4 34.15	AU3 AU3	21AWP4 21BAP4	33	29.98 Use 21CBP4A	AU3 AU3	24BAP4 24CP4	34	43.16 60.35 Use 24CP4A		
AU3	17DAP4	13	35.47	AU3	21BNP4		Use 21CBP4A	AU3	24CP4A	39	43.16		
AU3	17DKP4	14	29.79	AU3	21BSP4		Use 21AMP4A	AU3	24DP4		Use 24AEP		
AU3 AU3	17DLP4 17DQP4	13	Use 17DSP4	AU3 AU3	21BTP4 21CBP4		Use 21CBP4A Use 21CBP4A	AU3 AU3	24DP4A 24QP4		Use 24AEP4		
AU3	17DSP4	13	29.13 29.13	AU3	21CBP4A	33	29.98	AU3	24TP4		Use 24CP4A Use 24CP4A		
AU3	17DTP4		Use 17DKP4	AU3	21CBP4B		Use 21CBP4A	AU3	24VP4		Use 24CP4A		
AU3 AU3	17DXP4 17GP4*	14 16	29.13 30.06	AU3 AU3	21CEP4 21CEP4A		Use 21DFP4	AU3	24VP4A		Use 24CP4A		
AU3	17HP4A		Use 17HP4B	AU3	21CEP4A 21CMP4		Use 21DFP4 Use 21CBP4A	AU3 AU3	24XP4 24YP4		Use 24CP4A Use 24AEP4		
AU3	17HP4B	23	25.48	AU3	21CQP4	20	32.42	AU3	24ZP4		Use 24AEP4		
AU3	17JP4		Use 17BP4B	AU3	21CUP4		Use 21AMP4A	AU3	27EP4	42	Use 27 RP4		
AU3 AU3	17LP4A 17QP4A	23 23	24.52 25.17	AU3 AU3	21CVP4 21CWP4		Use 21CBP4A Use 21CBP4A	AU3 AU3	27MP4 27RP4	42 62	78.40 74.47		
AU3	17ŘP4*	20	Use 17HP4B	AU3	21CXP4	I	Use 21DSP4	100	271114	UZ.	74.47		

RCA (FULL COLOR) PICTURE TUBES

- Deliver Vivid Color Images, Plus Sharper Black-and-White Images for Optimum Televiewing Enjoyment
- Employ New Color Phosphors for Brighter Pictures

RCA's "Colorama" color picture tubes offer a host of outstanding features—more efficient phosphors for greater color brilliance and sharper pictures; improved cathode assemblies for longer operating life; glare-proof screens that practically eliminate annoying room light reflections; greater picture contrast on both color and black-and-white; etc. When ordering, specify Dept. No. and Tube Type No.

St	ock No.	Wt.,	NET
Dept.	Tube Type	Lbs.	EACH
AU3	21AXP22		Use 21AXP22A
AU3	21AXP22A	38	106.46
AU3	21CYP22	1	Use 21CYP22A
AU3	21CYP22A	45	104.94
AU3	21FBP22	45	111.47
AU3	21FJP22	54	122.58

DUMONT (ABD) 8" TV RECEIVER CHECK TUI



Improved version of this extremely versa 8" rectangular universal picture tubes great aid in television servicing. Now further aluminized for greater brightness and clarification provides a position of this extremely versal straight levision servicing. Now further tubes a position to the original picture tube. Provides a position on the-spot substitution test for picture tube and eliminates the necessity for taking a original picture tube back to shop for serving. Completely self-focusing. Can be used virtually all electromagnetically deflect sets regardless of deflection angle. For 5 or magnetic-focus sets. Shpg. wt., 6 lbs.

AUG 8XP4. NET.

V Picture Tubes - Special Design, and Audio Tubes

NBEATABLE VALUES IN REBUILT TV PICTURE TUBES

Lowest-Priced Factory Rebuilts for Top Savings

narkable savings can be yours on these relt TV picture tubes. All are completely new,
ept for glass envelope, and have been facy rebuilt by experts to provide bright, clear
ures. Each tube is thoroughly tested to conn to original specifications; All are guarani for one full year.

Take advantage of these unusually low prices and order now—enjoy the benefit of sharper pictures with more contrast, at rock-bottom cost. All have aluminized screen, except tube types indicated by * (asterisk). When ordering, be sure to specify Department Number and Tube Type Number.

As Low As \$1263



No.	Stock No.	Wt.	NET		Stock No.	Wt.	NET		Stock No.	Wt.	NET
t.	Tube Type	Lbs.	EACH	Dept.	Tube Type	Lbs.	EACH	Dept.	Tube Type	Lbs.	EACH
100000000	12LP4A* 14BP4 /CP4 /EP4* 14QP4 /HP4* 14RP4 /WP4 /NP4 16AP4A*	17 14 10 12 17	12.63 12.63 14.02 17.31 18.35	AU6 AU6 AU6 AU6 AU6	17LP4/VP4* 17LP4A/VP4A 17QP4/UP4/YP4* 17QP4A/UP4A/YP4A 19AJP4	23 23 23 23 23 20	16.58 18.28 15.34 16.95 24.60	AU6 AU6 AU6 AU6 AU6	21EP4A* 21EP4B 21FDP4/EAP4 21FLP4/CBP4 21FP4A*	20 27 32	19.87 21.86 32.36 23.98 20.98
1010101010	16GP4B* 16KP4 /RP4 /TP4* 16RP4A / KP4 17BJP4 17BP4A /JP4*	16 21 21 17 21	19.37 14.46 16.31 19.75 14.83	AU6 AU6 AU6 AU6 AU6	19AP4B* 19BDP4 19XP4 20CP4A/DP4A* 20CP4D/DP4C		22.73 24.59 24.59 17.08 19.14	AU6 AU6 AU6 AU6 AU6	21FP4C 21WP4A 21XP4A 21YP4* 21YP4A	31 31 33	22.81 20.56 21.69 22.29 23.98
000000	17BP4B /JP4B 17BWP4 17BZP4 /BRP4 /CWP4 /CRP4 /CKP4 17CP4*	21 14 14 16	22.90	AU6 AU6 AU6 AU6	20HP4A /LP4 /FP4 /MP4* 21AMP4A /ACP4A /AQP4A /BSP4 21AP4* 21AUP4A /AVP4B	29 27 25 33	18.04 22.51 27.70 24.34	AU6 AU6 AU6 AU6	21ZP4A* 21ZP4B 23ANP4 (Bonded Face) 23CP4/GP4/HP4 (Bonded Face)	33 44	20.89 23.10 42.60 42.60
00000	17DKP4/DTP4/DLP4 17DQP4 17HP4/RP4* 17HP4B/RP4A	13 13 23 23	22.90 22.90 16.07 17.90	AU6 AU6 AU6 AU6	21CEP4 21CQP4 21CXP4/DSP4 21DAP4/DEP4/CZP4	20 32	24.58 24.58 25.08 24.58	AU6 AU6 AU6 AU6	24AEP4/DP4/YP4 24AHP4/ALP4 24CP4A/ADP4A/QP4/TP4 27VP4/UP4/SP4/XP4	43	35.58 38.59 34.18 61.76

ULLARD MASTER 10M SERIES ELECTRON TUBES-INDIVIDUALLY TESTED

Special Design for Hi-Fi and Other Critical Applications

Mullard Master 10M Series is a special range of fully designed tubes, individually laboratory-tested neet exacting standards. Each tube is guaranteed for 100 hours of effective performance within a two-year lod from date of purchase. Multiple tests are conted on each tube for contact potential; matched secsis; cathode stability; hum; noise; transconductance; e-to-tube uniformity; microphonics; distortion; etc. ag life and reliability for critical applications.

Master 10M Series tubes are highly recommended for the full range of electronic equipment in any commercial application, including hi-fi components, sound and public address systems, broadcast and antenna systems, instrumentation, computer and communications systems, etc. Use these tubes for best results with existing equipment, as well as when designing new equipment. Tube pins are gold protected; each tube cartoned and bedded in foam. Av. wt., 5 oz.



Be Sure to Specify Department E8-Mullard and Tube Type When Ordering

St	ock No.	NET		Stock No.	NET		Stock No.	NET
Dept.	Tube Type	EACH	Dept.	Tube Type	EACH	Dept.	Tube Type	EACH
E8 E8 E8 E8	6AB8 6AJ8 6AK5 6AK8 6AL5	2.50 2.40 2.95 2.55 1.75	E8 E8 E8 E8 E8	6EU7 6FY5 6GK5 6HG8 6J6	2.15 2.15 2.20 2.80 2.30	E8 E8 E8 E8 E8	PL84/15CW5 ECC85/6AQ8 ECF86/6HG8 EF86/6267 PCF86/7HG8	2.25 2.15 2.80 2.25 2.40
E8 E8 E8 E8	6AQ5 6AQ5A 6AQ8 6AT6	1.95 1.95 2.15 1.80	E8 E8 E8	6J6A 6T8A 7HG8 9A8	2.30 2.55 2.40 2.95	E8 E8 E8 E8	ECC88/6DJ8 EBF89/6DC8 EF89/6DA6 EC90/6C4	2.80 2.40 2.30 2.60
E8 E8 E8 E8	6AU6 6AU6A 6AV6 6BA6 6BE6	1.85 1.85 1.75 1.80	E8 E8 E8 E8	12AT7 12AU7 12AU7A 12AV6 12AX7	2.30 2.00 2.00 1.75 2.00	E8 E8 E8 E8 E8	EK90/6BE6 EL90/6AQ5 EB91/6AL5 EBC91/6AV6 ECC91/6J6	1.90 1.95 1.75 1.75 2.30
E8 E8 E8 E8	6BL8 6BQ5 6BQ5A 6C4	2.75 1.95 1.95 2.60	E8 E8 E8 E8	12AX7A 12DW7 15CW5 EABC80/6AK8	2.00 2.30 2.25 2.55	E8 E8 E8 E8	HBC91/12AV6 EF93/6BA6 EF94/6AU6 EC95/6ER5	1.75 1.80 1.85 2.20
E8 E8 E8 E8	6DA6 6DC8 6DJ8 6DL5 DX8	2.30 2.40 2.80 2.30 2.60	E8 E8 E8 E8 E8	ECF80/6BL8 ECL80/6AB8 PCF80/9A8 ECC81/12AT7 ECH81/6AJ8	2.75 2.50 2.95 2.30 2.40	E8 E8 E8 E8 E8	EF95/6AK5 EL95/6DL5 EC97/6FY5 EF183/6EH7 EF184/6EJ7	2.95 2.30 2.15 2.35 2.35
E8 E8 E8 E8	6EH7 6EJ7 6ER5 6ES8	2.35 2.35 2.20 3.15	E8 E8 E8 E8	ECC82/12AU7 ECC83/12AX7 ECL84/6DX8 EL84/6BQ5	2.00 2.00 2.60 1.95	E8 E8 E8 E8	ECC189/6ES8 6267 7025 7247	3.15 2.25 2.15 2.30

HAND-CRAFTED CUSTOM AUDIO TUBES BY GENALEX

• Deluxe Replacement Tubes for Hi-Fi Units

• Individually Made to Rigid Standards

series of hand-crafted, deluxe replacement tubes for high-fidelity uponents, offering ultra-reliable, distortion-free design. Each "Gold m" tube is carefully quality-controlled during manufacture—actually asure up to prototype laboratory standard. Made in the finest tradin of British craftsmanship by the renowned General Electric Co., Ltd., England. 100% tested for major characteristics, including operational ts, noise and microphonics. Secondary characteristics are checked and proved on a statistical basis in accordance to U. S. Government MIL-

In addition, 1000-hour life tests are regularly carried out on samples selected at random with some tubes terted to 10,000 hours. Every component in "Gold Lion" tubes is microscopically examined, cleaned in ultrasonic baths, and assembled at pressurized dust-free benches. Each tube heat-sealed in pliofilm and separately cartoned. When ordering, give full Stock No., which consists of Dept. No. and Mfr's Type No. thus: E7-GL-KT77. MP after tube type indicates matched pair. Av. shpg. wt., 4 oz.



Stock No.				S	itock No.	m 1	NET
pt.	Type .	Replaces:	NET	Dept.	Туре	Replaces:	
7	GL-U52	5U4G, 5T4, 5931	2.90	E7	GL-N709	6BQ5, EL84	3.80
	GL-KT66	EL35, EL36, EL37, EL39, 1614,	1 105		GL-N709-MP	6BQ5, EL84	8.60/pr.
1	0.00	1622, 5881	4.50	E7	GL-U709	6CA4, EZ81	3.20
7	GL-KT66-MP	EL35, EL36, EL37, EL39, 1614,	· · · · /	E7	GL-D717	6AL5, D77, EB91, 5726, 6058,	2.00
		1622, 5881	10.00/pr.			6097, 6663	3.80
7	GL-KT77	6L6GB, 6CA7, EL34, 7581	5.50	E7	GL-Z729	6CF8, EF86, 6267	3.00
7	GL-KT77-MP	6L6GB, 6CA7, EL34, 7581	12.00/pr.	E7	GL-B739	12AT7, ECC81, B309, 6060, 6201,	
7	GL-U77	5AR4, 5V4, 5Z4, GZ30, GZ32,				6679	3.20
		GZ33, GZ34	3.70	E7	GL-B749	12AU7, ECC82, 5814, 6067, 6189,	0.00
.7	GL-KT88	6L6GC, 6550, 7027A	6.95			6680	2.80
	GL-KT88-MP	6L6GC, 6550, 7027A	14.90/pr.	E7	GL-B759	12AX7, ECC83, 5751, 6681, 7025,	200
7	GL-U707	6X4, 6BX4, U78, EZ90, 5993, 6063,				7247	3.00
		6202 6203	3.40				

Special-Purpose and Hi-Fi Audio Tubes.



MANUFACTURER'S **ABBREVIATIONS**

Amperex Elect. Corp.
Cont'/Elect. Corp.
Eitel McCullough
General Electric
Genalex
Mullard Products
Penta Labs, Inc.
Radio Corp. of Amer.
Raytheon Mfg. Co.
Sylvania
Taylor Tubes, Inc.
Tungsol
Victoreen AMP CEC EIM GE GEN MULL PEN RCA RAY SYL TAY TUNG VIC

HIGH RELIABILITY TUBES FOR EXACTING USES

FOR EXACTING USES

High reliability, special purpose tubes for exacting applications in commercial, military, Amateur, and experimental equipment. Carefully made and thoroughly tested—assure optimum performance of electronic equipment by minimizing tube failure. RCA "Premium" and G.E. "Five-Star" tube types are indicated by an asterisk*, or asterisk with prototype tube in brackets, thus 5670*(2C51). All of the tubes are directly interchangeable with their prototypes and require no rewiring.

SPECIAL HIGH-FIDELITY **AUDIO TUBES**

Tube types that are followed by in table below, are special high-fide tubes for top audio performance. Si fully designed and factory-tested, t provide full fidelity, hum-free option and long life. Tube types brackets are receiving tube protypes. All are directly interchanges except \$, may require some rewir Suffix MP indicates matched pare recommended for optimum formance in power output stages hi-fi amplifiers.

Easy to Order—Specify Department and Tube Type. This tabular presentation lets you quickly and easily locate the tube types you want. When ordering, be sure to give the full Stock Number, which consists of the Department Number and the Manufacturer's Tube Type Number, thus E1-0A2. These numbers represent the exact location of the tube in Allied's stockrooms and speed up shipment of your order.

Allied stocks over 1100 different tube types, from 23 manufactural ways ready for immediate delivery. Write for information on any hifdelity or special-purpose tube not shown in this listing—we complete lines of our tube suppliers. As new tube types are released manufacturers, Allied will stock them. Make Allied your one stop sor for all your tube requirements.

Allie	d's stockrooms and spe	eed up s	hipment of y	our ord	er., · ' for	r all you	ır tube requir 	ements	s.		
Dept.	Stock No. Tube Type	Mfr.	NET EACH	Dont	Stock No.	Mfr.	NET -	, , ,	Stock No.	Mfr.	NET
E1 E1 E1 E1 E2 E1 E1 E3 E1	OA2 OA3 OA4G OB2 OB3 OC3 OD3 1B85	RCA RCA RCA RCA RCA VIC RCA	1.46 1.54 1.86 1.44 2.35 1.50 1.44 8.50 1.37	E3 E3 E4 E3 E4 E3 E4 E3 E4 E3	Tube Type EBF80†(6N8) EF80†(6N8) EZ80†(6V4) ECC81†(12AT7) EM81†(6DA5) E481†(6CA4) EZ81†(6CA4) ECC82†(12AU7) ECL82†(6BM8)	MULL MULL AMP MULL AMP MULL AMP MULL	1.67 1.68 .81 1.53 1.41 1.05 1.14 1.23 1.62	E1 E1 E2 E3 E1 E1 E1 E1	Tube Type 2050 5639* 5651* CK5654 5662 5670*(2C51) 5670 WA*(2C51) 5687 5696	RCA RCA RCA RAY GE RCA RCA RCA	2.37 6.55 1.78 3.05 1.45 3.00 3.95 4.05
E1 E1 E1 E1 E1	1P39 1P40 2D21 2E24 2E26 2X2A	RCA RCA RCA RCA RCA RCA	2.45 3.75 1.29 5.25 3.85 3.10	E3 E3 E3 E1 E4 E3	UCL82†(50BM8) UCL82†(50BM8) UCL82 MP†(50BM8) 83 ECC83†(12AX7) EL84 MP†(6BQ5)	MULL MULL RCA AMP MULL	3.65/pr. 1.62 3.90/pr. 1.89 1.28 2.84/pr.	E1 E3 E1 E1 E1	5725*(6AS6) 5726*(6AL5) 5727/2D21W 5751*(12AX7) 5763 5814A*(12AU7)	RCA GE RCA RCA RCA	3.80 1.55 2.90 2.95 2.53 3.35
E1 E1 E1 E3	3A5 3B28 3KP1 4-65A 4-125A	RCA RCA RCA EIM	2.03 6.00 19.50 28.75 36.00	E4 E4 E3 E3 E4	EL84†(6BQ5) EL84 MP†(6BQ5) UL84†(45B5) UL84MP†(45B5) XL84†(8BQ5)	AMP AMP MULL MULL AMP	1.30 2.63/pr. 1.49 3.38/pr. 1.30	E1 E2 E1 E3 E3	5823 CK5879 5881†(6L6) 5881†(6L6) 5881MP†(6L6)	RCA RAY RCA TUNG TUNG	
E3 EZ3 E3 E3	4-250A 4-400A 4-1000A 4CX250B/ 7203 4CX300A	EIM EIM EIM EIM	46.50 48.00 132.00 39.00 55.00	E4 E3 E4 E3	EF86†(6267) EL86†(6CW5)	MULL	Type 6267 1.38 1.43	E1 E1 E1 E1	5896* 5899* 5902* 6005*(6AQ5)	RCA RCA RCA RCA	4.45 6.55 5.75 3.93 2.40
EU3 E2 E1 E3 E4	4CX1000A RK 4D32 4E27A/5-125B 4X250B 5AR4†(GZ34)	EIM RAY RCA EIM AMP	156.00 32.76 40.00 39.35 2.20	E3 E4 E3 E3	EL86 MP†(6CW5) UF86 † ECC88†(6DJ8) KT88† KT88 MP†	MULL MULL AMP GEN GEN	3.32/pr. 1.76 1.89 5.95 13.65/pr.	E1 E1 E3 E1	6072*(12AY7) 6073*(OA2) 6074*(OB2) 6087*(5Y3GT) 6111*	RCA RCA RCA GE RCA	3.90 3.35 3.70 5.75 5.45
EZ3 EZ1 EZ1	4X500A 5BP1A 5CP7A 5R4GY 5R4GYA	Use Ty GE	128.50 23.30 28.60 pe 5R4GYB 2.05	E3 E3 E3 E3 E3	EL90 MP†(GAQ5) EZ90†(6X4) ECC91†(6J6) EL95MP†(6DL5) 100TH	MULL MULL MULL EIM	2.73/pr. .81 1.43 2.73/pr. 23.50	E1 E1 E1 E1	6112* 6136*(6AU6) 6146 6159 6186/6AG5WA	RCA RCA RCA RCA	5.45 2.75 5.00 5.00
E1 EX6 E1 E1	5R4GYB 5UP1 C5-10/P2 6AK6 6AS6	RCA RCA CEC RCA RCA	2.03 12.45 52.00 1.40 3.43	EZ3 EZ3 E3 E3 E1	PL172 250TH 304TH 304TL 502 A	PEN EIM EIM EIM RCA	135.00 38.50 64.50 64.50 2.30	E1 E1 E4	*(6AG5) 6189/12AU7 WA *(12AU7) 6201*(12AT7) 6211	RCA RCA AMP	3.85 3.70 2.95 2.35
E4 E1	6AS7G 6CA7 MP†(EL34) 6GB5† 6GK5† 6J4	RCA AMP AMP AMP RCA	4.95 6.80/pr. 2.05 1.07 4.19	E1 E1 E1 E1	807 809 810 811A 812A	RCA RCA RCA RCA RCA	3.00 7.95 26.95 6.90 6.90	E4 E3 E4 E1	6227 6265*(6BH6) 6267†(EF86) 6293 6328	AMP GE AMP RCA RCA	3.05 4.10 1.38 6.40 11.10
EX1 E1 E3 E3	7JP1/7VP1 7JP4 12A6 GZ32† EL34†(6CA7)	SYL RCA RCA MULL MULL	29.00 23.84 3.36 2.54 3.16	E1 E1 EZ1	813 815 816 829B 833A	RCA RCA RCA RCA RCA	23.15 28.35 2.95 19.00 53.65	E1 E3 E3 E1 E1	6417 6550† 6550MP† 6626/OA2WA*(OA2) 6661/6BH6	RCA TUNG TUNG RCA RCA	3.04 4.95 10.55/ 4.45 1.34
E3 E3 E3	EL34 MP†(6CA7) GZ34†(5AR4) 35T EL37†(6L6) EL37†(6L6)	MULL EIM MULL AMP	6.86/pr. 2.27 21.50 3.40 3.20	E1 E1	866A 866JR 872A 884 885	RCA TAY RCA RCA RCA	2.65 1.95 10.65 2.28 2.00	E1 E1 E1 E1	6678/6U8A 6679/12AT7 6680/12AU7 6681/12AX7 6883	RCA RCA RCA RCA RCA	1.62 1.50 1.22 1.26 5.00
E4 E3 E4 E3	EL37 MP†(6L6) EL37 MP†(6L6) TZ40 EFP60 KT61†	MULL AMP TAY AMP GEN	6.82/pr. 6.82/pr. 10.20 7.50 3.75	E1 E1 E1	921 927 931VA 991 1614†	RCA RCA RCA RCA	3.50 3.80 11.75 .87 4.93	E3 E1 E1 E3 E3	7025† 7034/4X150A 7189† 7189† 7189MP†	MULL RCA RCA MULL MULL	1.40 25.00 1.40 1.40 3.53/p
E2 E3 €3	KT61 MP† RK61 KT66† (6L6) KT66 MP† DM70†(1M3)	GEN GEN GEN MULL	9.25/pr. 4.20 3.50 8.75/pr. 1.05	E1 E1 E1	1620†§(6J7) 1621†§(6F6) 1622†§(6L6) 1625 1635	RCA RCA RCA RCA RCA	7.55 3.50 4.85 4.75 3.82	E1 E1	7212 7412 7536 7551 7558	RCA RCA RCA RCA	6.75 2.10 2.10 3.50 3.50

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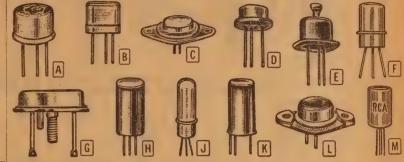
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This listing represents only the more popular types of semi-conductors stocked by Allied—those of particular interest to

the experimenter, radio Amateur and hobbyist. Phone or write us for any types you need that are not shown in the list below.

KEY TO NAMES OF MANUFACTURERS General Electric Hoffman Semiconductors International Rectifier Microwave Associates Motorola National Semiconductors Pacific Semiconductors Philco Raytheon Radio Corp. of America Sarkes-Tarzian



EXPLANATION OF COLUMN HEADINGS AND SYMBOLS

. Sylvaniá Texas Instruments

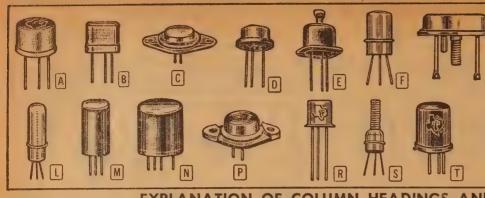
Pc—maximum collector dissipation in milliwatts
Pt—total dissipation in watts
Ic—maximum collector current in milliamperes
BVcb—collector-to-base breakdown voltage in volts
hte—small signal AC current gain (small signal AC beta)
hte—DC current gain (large signal DC beta)
fab—alpha cutoff frequency in megacycles
fae—alpha cutoff frequency in megacycles—common emitter
AJ—alloy junction type
GJ—grown junction type
Av shop wt 2 oz

GE... HOF INT.. WIC. MOT NAT PAC. PHI.. RAY. RCA. ST... SYL.

DJ—diffused junction type
DB—diffused barrier type
SB—surface barrier type
RG—rate grown type
DF—drift field type
Un—unijunction type
"Si" in design column indicates silicon type;
all others are germanium

• in design column indicates NPN type; all others are PNP type

	Av. s	hpg.	wt., 2 oz	Z								all	others ar		уре				
Type No.	Mfr.	Fig.	Design or Structure	Pc Pt* Or Mw W	le Ma	BV _{cb} V	h _{fe} or hFE†	fab or fae†Mc	NET EACH	Type No.	Mfr.	Fig.	Design or Structure	Pc Pt* or Mw W	le Ma	BV _{cb} V	h _{fe} or h _{FE} †	fab or fae‡ Mc	NET EACH
4/5	SYL SYL GE GE GE	AADEE	AJ AJ AJ AJ AJ AJ AJ	250 180 240 240 65	100 100 300 300 300 20	40 40 45 45 20	75 75 53† 31† 90	0.4 0.8 1.3 1.0 5.0	3.26 1.17 4.15 2.95 2.50	2N307 2N313 2N319 2N320 2N321	GE GE	C 2N292 E E E	AJ AJ AJ	240 240 240 240	1.0A 200 200 200 200	35 20 20 20 20	30† 33 48 80	2.0 2.5 3.0	1.49 1.50 1.58 1.60
4 04 07 09 28	SYL RCA GE RCA PHI	B K D K L	•AJ AJ AJ AJ SB	50 150 50 150 25	50 50 10 70 5	20 30 12 25 4.5	10 44 19 75 40	3.0 0.7 1.0	1.34 1.65 .55 .91 6.30	2N322 2N324 2N327A 2N331 2N344	GE GE RAY MOT PHI	EAAJ	AJ AJ Si, Alloy AJ SB	140 140 250 200 20	100 100 50 200 5	16 16 50 30 5	42 80 14 50 22	2.0 3.0 .20 0.4	.75 .92 3.70 1.50 3.45
35 36 37 39 40	GE GE GE RCA RCA	D D H H	•Switch •Switch •Switch AJ AJ	100 100 100 80 80	50 50 50 15 15	20 20 10 16 7.0	20 40 60 48 75	4.5 6.5 10 6.8 10	2.15 2.55 6.20 1.16 1.24	2N345 2N346 2N351A 2N362 2N363	PHI PHI MOT RAY RAY	JCAA	SB SB AJ AJ AJ	20 20 90* 150 150	5 5 5A 100 100	5 40 18 32	35 35 45† 90 50	400 2.0 1.5	4.35 5.85 1.80 .83 .72
69 69 A 70 73 75	GE GE GE TI RCA	EEEGH	•GJ •GJ AJ •AJ AJ	65 65 25 150* 50	20 20 20 15 2.0	15 25 6 60 10	72 72 20 70† 65	9.0 9.0 2.5 10‡ .85	1.57 2.40 .75 6.35 1.63	2N368 2N369 2N371 2N372 2N376A	Use RCA RCA MOT	B TI-33 F C	DF DF AJ	80 80 90*	50 10 10 5A	30 20 20 40	60 60 60†	30 30 500	1.92
76 78 85 88 A 89	MOT MOT Use TI GE GE	-376 D	AJ AJ AJ	90* 40* 200 75	3.0 3.0 200 50	40 40 25 25	70 † 45 † 54 24	1.2	1.88 1.55 .71 1.64 .70	2N377 2N383 2N384 2N386 2N387	SYL SYL RCA PHI PHI	A M C C	AJ Si Mesa AJ AJ	150 200 120 12* 12*	200 400 10 3.0A 3.0A	25 50 30 60 80	40 † 115 60 60 † 35 †	6.0 5.0 100 .70 .60	1.56 1.45 2:48 6.75 9.75
90 91 92 94 07	GE GE GE SYL PHI	D D D B E	LA LA LA LA LA	75 75 75 50 50	50 50 50 50 20	25 25 25 18 12	36 54 75 8.0 100	1.0 1.2 1.5 3.0 2.0	.75 .83 1.57 1.25 1.95	2N388 2N398 2N398A 2N404 2N405	MOT MOT RCA RCA	AAAH	LA LA LA LA LA	150 50 150 120 150	200 100 200 100 70	25 105 105 25 12	150† 60 20 40 35	8.0 1 1.0 12.0 .65	1.43 1.30 1.30 .63 .46
07A 07B 12 13 13A	PHI PHI SYL SYL SYL	EEBBB	LA LA LA• LA•	50 50 50 150 150	20 20 50 100 50	12 12 18 40 40	100 100 20 150 250	2.0 2.0 6.0 3.0 .15	2.10 2.25 1.50 1.25 1.59	2N406 2N407 2N408 2N409 2N410	RCA RCA RCA RCA	K H K H K	A) A) A) A)	150 150 150 150 *80 80	70 70 70 15 15	12 20 20 13 13	35 75 75 48 48	6.8 6.8	.46 .56 .56 .68
14 15 16 17	SYL RCA SYL RCA RCA	B K B K	LA• LA• LA• LA• LA• LA•	180 150 50 150 80	100 50 50 70 15	, 40 30 18 25 16	75† 44 7.5 75 48	.80 .70 3.0 6.8	.62 1.73 1.75 .86 1.16	2N4 1 2N4 2 2N4 4 2N4 6 2N422	RCA RCA RAY RAY RAY	H K A A	AJ LA LA LA LA	80 80 150 150 150	15 15 200 200 100	13 13 30 30 35	75 75 60 80 50	10.0 10.0 7.0 10.0 .80	.71 .71 .75 1.50
19 20 23 24 25	RCA RCA PHI PHI PHI	KKFFF		80 50 250 250 250 of 2N224 with		7 10 18 25 natch e	1	.85 .60 .51	1.24 1.55 1.08 1.10 2.20	2N441 2N450 2N456A 2N457A 2N458A	MOT GE TI TI	G D C C C	AJ •AJ Alloy Alloy Alloy	150* 150* 150* 150* 150*	15A 125 7.0A 7.0A 7.0A	40 20 40 60 80	40† 130 60† 60† 60†	10 kc‡ 5.0 .43 .43 .43	2.65 2.10 2.60 3.30 4.70
26 27 29 32 33	PHI PHI SYL PHI SYL	F F B J	•AJ SB •AJ	250 f 2N226 with 50 9.0 50	40 3.0 50	10 4.5 10	75 24 5.0	3.0 20 3.0	1.02 2.04 .50 1.05	2N464 2N465 2N466 2N467 2N495	MOT MOT MOT RAY PHI	A A A J	AJ AJ AJ Si AJ	150 150 150 150 150	100 100 100 100 50	40 45 35 35 25	26 45 90 180 30	.70 .80 1.0 1.2 21	1.50 1.56 1.65 2.10 11.63
41A 47/33 50 51 55	GE SYL TI TI SYL	DCCCC	AJ DF Alloy Alloy AJ	200 80 25* 25* 10*	500 10 3.0A 3.0A 3.0A	45 35 30 60 15	85 60 90† 90† 30†	1.0 30 8.0 kc 8.0 kc	.92 2.47 1.90 2.25 1.00	2N499 2N501 2N508 2N514 2N514A	PHI PHI GE TI	JACC	DB DB AJ AJ	30 60 140 150* 150*	50 50 100 25A 25A	30 15 16 40 60	8.5 70† 112 60† 60†	170 175 3.5 .35 .35	3.98 6.38 .99 8.25 8.40
65 78 92 93 97 A	GE MOT GE GE MOT	DGEEL	AJ AJ •GJ •GJ AJ	75 150* 65 65 65	50 15 A 20 20 4.0 A	25 50 15 15 60	110 70† 25 25 100†	1.5 10‡kc 6.0 7.0 12 kc‡	1.87 3.85 .75 .83 2.90	2N514B 2N517 2N525 2N527 2N535	TI SYL MOT GE PHI	CBDDE	LA LA LA LA LA	150* 50 225 225 50	25A 10 500 500 20	80 18 45 45 20	60 † 7.5 52 91 100	.35 3.0 2.5 3.3 2.0	8.80 1.67 1.65 1.91 2.78
01 01A 06	RCA RCA SYL	CCC	AJ AJ •AJ	3* 3* 50	2.0A 2.0A 100	40 60 20	70† 70† 75	.75	1.52 3.71 .84	2N554 2N555 2N591/5 2N588 2N600	MOT MOT SYL PHI PHI	CCALS	AJ AJ DB AJ	40* 40* 50 30 750	3.0A 3.0A 40 50 500	30 40 32 15 35	70	400 40 .70 250 8.0	.60 .90 1.05 1.43 3.45



All semiconductors are available for immediate shipment. Allied stocks the full lines of all manufacturers shown, but space does not permit complete listings. A representative group of most commonly used types is listed here.

HEADINGS AND SYMBOLS **EXPLANATION OF COLUMN**

Pc, maximum collector dissipation. Pt, total dissipation. Ic, maximum quency. fae, alpha cutoff frequency—common emitter. "Si" indicates of the collector current Byce, collector-to-base breakdown voltage, he, small silicon type; all others are germanium. Indicates NPN type; all others are germanium.

	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2N629 MOT C AJ 90* 10A 80 30† .40 6.90 2N1373 TI A Alloy 250 200 45 2N647 RCA M •AJ 100 25 70 1.16 2N1374 TI A Alloy 250 200 25 2N649 RCA M •AJ 100 50 20 65† .86 2N1375 TI A Alloy 250 200 45 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200 200 25 200	A5 20 1
2N649 RCA M •AJ 100 50 20 65†	70 2.0 1 95 2.0 1
2N651 MOT A AJ 200 45 250 75 2.5 1.88 2N1377 TI A Alloy 250 200 45 2N652 MOT A AJ 200 250 45 160 3.0 2.40 2N1378 TI A Alloy 250 200 12 2N653 MOT A AJ 200 250 30 40 2.0 1.65 2N1379 TI A Alloy 250 200 25	95 200 200 200 2.0 1.
2N654 MOT A AJ 200 250 30 75 2.5 1.80 2N1380 TI A Alloy 250 200 12 2N655 MOT A AJ 200 250 30 160 3.5 1.95 2N1381 TI A Alloy 250 200 25	100 2.0
2N669 MOT C AJ 3.0A 40 100† .50 1.70 2N1382 TI A Alloy 200 200 25 2N705 TI R MESA 300 50 15 40† 3.0 3.15 2N1383 TI A Alloy 200 200 25 2N705 TI R MESA 300 50 15 40† 300 2.48 2N1401 TI A MESA 35 5.0	80 2.0 50 2.0 2.1 4
2N7 10 TI A MESA 300 50 15 40† 300 2.48 2N1404 TI A AJ 150 300 25 2N7 11 TI A MESA 150 50 12 30† 360 1.45 2N1411 PHI K Alloy 25 50 5	75 4.0 3.
2N797 TI T •MESA 150 150 20 80† 1000 4.58 2N1425 RCA N DF 80 10 24	49 33 120 33
2N1010 RCA M AJ 50 2.0 10 35 2.0 1.93 2N1525 RCA M AJ 80 10 24 2N1038 TI H Alloy 20* 3.0A 40 33† 10kc‡ 2.85 2N1526 RCA M AJ 80 10 24	150 60 130 33 33
2N1039 TI H Alloy 20* 3.0A 60 33+ 10kct 3.75 2N1527 RCA K AI 80 10 24	130 33 30† 10‡kc 2.
2N1042 II	18 4.0 6. 40 12 1. 80 45 .
2N 045 TI H AJ 20* 3.0A 100 25† 10kct 18.00 2N 633 RCA K AJ 80 10 34 2N 059 SYL B AJ 180 100 20 75† .80 1.00 2N 635 RCA K AJ 80 10 34	75 40 1. 75 45 1.
2N 087 GE E *RG 65 20 9.0 17† 8.0 1.82 2N 67 GE A Si, Un 450	80 45 2.
2N 098 GE D AJ 140 100 16 34† 1.0 .60 2N 694 GE D Switch 75 25 20 2N 102 SYL B AJ 180 100 20 40 .15 .75 2N 745 PH D AJ 60 50 20 20 2N 102 SYL B AJ 180 100 40 40 .15 .84 2N 750 PH L SB 15 5.0 14	30† 9.0 33†
2N1109 TI B GJ 30 5 16 20 30 1.89 2N1752 PHI D DB 60 50 12 2N1124 PHI F AJ 300 250 40 125 1.3 1.95 2N1905 RCA P DF 50* 10A 60	30 50 1. 250 106 2. 90† 7.5kc 4.
2N 125 PHI F AJ 300 250 40 125 1.5 2.85 2N 907 TI G AJ 150* 20A 100 2N 128 PHI F AJ 150 250 25 120 1.25 1.43 2N 2078 MOT G AJ 170* 15A 40 2N 129 PHI F AJ 150 250 25 165† .75 1.65 2N 2082 MOT G AJ 170* 15A 40	10† 20 9. 40† 10kc‡ 2.
2N 130 PH F AJ 150 250 30 110† .75 1.43 2N 2 102 RCA A Si, *DJ 5* 1A 120 2N 1 43 2N 2 188 TI R MESA 125 50 40	70† 10kc‡ 3. 120† 8. 90 125 1.
2NI 144 GE D AJ 140 100 16 34†68 2N2 189 TI R MESA 15 50 40 2N1 145 GE D AJ 140 100 16 34†60 2N2 190 TI R MESA 125 50 60	135 150 1. 90 125 1.
2N 192 MOT A AJ 175 200 40 75 2.0 1.12 2N2270 RCA D Si,* 2N1 93 MOT A AJ 175 200 40 160 2.5 1.50 2N2270 RCA D Si,* 2N2270 RCA D Si,*	135 150 1.
2N 204 PHI D Alloy 200 500 20 30† 6.38 CK72! RAY B AJ 180 10 15 2N 224 RCA K AJ 120 10 40 60 60 2.06 CK722 RAY B AJ 180 10 22 2N 225 RCA A AJ 120 10 40 60 100 2.89 CK728 RAY B AJ 150 100 15 2N 226 RCA A AJ 120 10 60 60 60 3.30 HT 103 HOF A MESA 600 20	0.8 2.
2N1264/33 STL A DJ 50 110 20 25 3.0 .57 SB[0] Use 2N344	6.0 150 1.5.
2N1 265 / 5 SYL A AJ 50 100 10 75 1.0 .57 SB102 Use 2N345	05.4
2N 274 TI A Alloy 150 150 25 50 2.0 .69 TI-376 TI J AJ 150 150 20 20 20 30 30 30 30 3	95 † 50 1. 105 † 53 †
2N 30 RCA A MESA 150 300 30 100 10 1.65 71-480 TI J Si GJ 600 60 50 2N 302 TI J Alloy 150 300 25 50 3.0 .50 TI-481 TI J Si GJ 600 60 80	36
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2 2 2 2
2N 306 T J Alloy 150 300 25 100 10.0 1.12 T -485 T J MESA 300 1μa 20 2N 307 T J Alloy 150 300 30 100 10.0 1.12 T -492 T J Si, GJ 150 25 40 300	15 8.0 1.
2N 309	15† 20 1. 40† 20 2. 120† 20 3.
2N 370 Ti A Alloy 150 150 25 80 2.0 27 TI-496 Ti J Si, GJ 600 -60 70 70 70 70 70 70 70	10† 1.0 1. 14.5

TRANSISTOR BOOKS

INTERNATIONAL TRANSISTOR SUBSTITUTION GUIDE-BOOK. By K. A. Pullen, Jr. (Rider). Lists 4500 direct substitutions between transistors of U.S. and foreign makes. 56 pages 5½x8½" 1.47 39 K 544. Postpaid in U.S.A.

TRANSISTOR THEORY AND CIRCUITS MADE SIMPLE. By H. Pollack (AMECO). Concise, simply presented discussion of transistor theory and operation. 19 circuits, 124 pages. 6x9". 1.20



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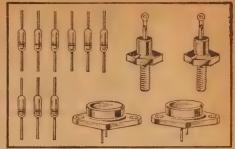
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54 E 303	MM240	400		.90
54 E 304	M M 260	600	1N2031	1.35
54 E 305	MM280	800	1N1236	1.75
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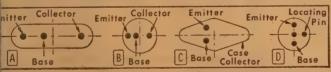
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54 E 310			1N2070	.40			
54 E 3 1 1	ME600	600	1N2071	.70			

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pe No.	Fig.	Structure	Use	NET EACH
E-I	В	PNP	Mixer-Oscillator-Converter	1.30
3E-2	В	PNP	AF Amplifier	1.20
€E-3	C	PNP	AF Power Amplifier	2.25
5E-4	D	PNP	AF High Power Amplifier	4.90
3E-5	В	NPN	Mixer-Oscillator-Converter	1.75
3E-6	A	NPN	Mixer-Oscillator-Converter	1.75
3E-7	A	NPN	IF Amplifier	1.58
3E-8	В	NPN	AF Amplifier	1.26

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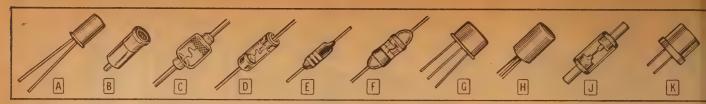
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EXPLANATION OF SYMBOLS AND COLUMN HEADINGS

Manufacturers' Names

GE—General Electric HU—Hughes Aircraft HOF—Hoffman R-International Rectifier MIC-Microwave Associates

PHI-Philco RCA-Radio Corporation of America RAY—Raytheon SYL—Sylvania

TI—Texas Instruments

Column Heads and Abbreviations

PIV—peak inverse voltage. Max. Inv. Ma—maximum inverse curre in milliamperes. Itwa—minimum forward current in milliamperes me ured at 1 volt and at 25°C. Im—maximum reverse current measured microamperes at specified temperature, Ip—peak rectified forward or rent in milliamperes. Vz Min.—minimum zener voltage @ 25°C. "Gindicates germanium type; "Si" indicates silicon type. Av. shpg. wt., 2000.

DIODES FOR VARIED APPLICATIONS

							DIODE2	ruk	VA
Type No.	-	Mfr.	PIV-	1 1110 (6) 23 0.	lfwd	3 .	Description	'a	NET
IN21B IN21C IN23B IN23C IN34A	B B B	MIC MIC MIC MIC RAY	300 900	0-me silicon microw 0-me silicon microw 0-me silicon microw 0-me silicon microw .035 @ 10V	ave mi ave mi	xer - ·	. purp.		.68 1.02 .68 1.02
IN34AS IN35 IN38BS IN48S IN54AS	DCFCC	SYL SYL SYL SYL	60 50 100 85 50	30 @ 10V .01 @ 10V 6 @ 3V .833 @ 50V .007 @ 10V	50 7 50 40 5	Ge; Gen Ge; Gen	ched pair . purp.	÷.,	.32 2.52 .75 .33
IN55AS IN56A IN58A IN60 IN63S	CCCDC	SYL SYL SYL SYL SYL	150 50 120 25 100	.5 @ 15CV .3 @ 30V .6 @ 100V .03 @ 1.5V .05 @ 50V	4 15 4		r cond.	р.	1.44 1.14 1.20 .48
IN64 IN65S IN66A IN67A IN67A	C D D	SYL SYL RAY HU RAY	25 70 60 80 80	Noise, 14 db max. .2 @ 50V .8 @ 50V .05 @ 50V .05 @ 50V	2.5 5 4 4		purp.	33 14 14 15	.72 .48 .39 .61
IN68A IN69A IN82 IN82A IN90	DCCCD	HU SYL SYL RAY HU	100 60 5 5 60	.625 @ 100V .5 @ 50V Noise, 16 db max. Noise, 14 db max. .5 @ 50V	3 5 5	Ge; Gen. Ge; Gen. Ge; UHF Ge; UHF	mixer (to 100) mixer (to 100)	0 mc) 0 mc)	1.00 .58 .95 .92
IN95 IN96 IN99 IN100 IN116	0 0 0 0	HU HU HU HU	60 60 80 80 60	.5 @ 50V .5 @ 50V .05 @ 50V .05 @ 50V .100 @ 50V	10 20 10 30 5	Ge; Gen.	purp. back res.		.52 .59 .88 .96
INI 18 INI 26A INI 37A INI 38A INI 47A	D D A A J	HU HU HOF HOF PHI	60 60 36 18 2	.100 @ 50V .850 @ 50V .03 @ 20V .01 @ 10V Frequency, 900-100	2 50 21 35 0 mc	Ge; High Ge; Gen. Ge; Gen. Ge; Gen. Ge; Mixe	purp.		.61 .45 2.75 2.75 .96
IN191 IN192 IN198 IN270 IN273	00000	HU HU HU RAY HU	₹70 80 80 35	uter—recovers to 50 20 @ 50V .25 @ 50V 100 @ 50V .02 @ 20V	0K in 0. 30 5 80 100	Ge; Swite Ge; Gen. Ge; Gen.	purp. 3	, S	.58 .53 .51 .50
IN279 IN294	D D	SYL	35 60	.2 @ 20V 10 @ 10V	100 50	Ge; Quic Ge; Gen.	k recovery purp.		.71 .34

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PHILCO GERMANIUM TUNNEL DIODES

Quality germanium tunnel diodes for use in a variety of applications. All have forward voltage of 475 millivolts; peak point voltage of 55 millivolts; valley voltage of 320 millivolts; storage temperature of -65° to 100° C. Minimum peak to valley point current ratio: 1N3560/T1925, 5; 1N3561/1975, 8; 1N3562/T1976, 6. Av. shpg. wt., 2 oz.

Mfr's Type	وخلارانا النبالغ النار	Neg. Resistance	Series	Resistance	NET	EACH
IN3560/T1925 IN3561/T1975 IN3562/T1976	1.0	-120 ohms -120 ohms -25 ohms	1.	5 ohms 5 ohms 7 ohms	4	.75 .75 .95

G.E. TUNNEL DIODE MANUAL

1.00

ED APPL	.IC/	AHO	כאוי				
Type No.	Fig	Mfr.	PIV	Max. Inv. Ma @ 25° C.	lfwd	Description	NE EA
IN294A IN295 IN295 IN295A IN297A	00000	RAY GE SYL RAY RAY	60 40 40 40 40 80	.8 @ -50V .18 @ 10V .18 @ 10V .2 @ 10V 10 @ 10V	30	Ge; Gen. purp. Ge; Gen. purp. Ge; Gen. purp. Ge; Gen. purp. Ge; Gen. purp.	**************************************
IN305 IN306 IN307 IN456 IN457	K K C C	RAY RAY RAY SYL SYL	60 15 125 30 70	2 @ 10V 2 @ 10V 5 @ 10V .025 @ 25V .025 @ 60V	125 150 50 90 75	Ge; Gen. purp. Ge; Gen. purp. Ge; Gen. purp. Si; Gen. purp. Si; Gen. purp.	2.6
IN458 IN459 IN461 IN462 IN463	00000	SYL SYL SYL SYL SYL	150 200 30 70 200	.025 @ 125V .025 @ 175V .50 @ 25V .50 @ 60V .50 @ 175V	55 40 60 50 30	Si; Gen. purp. Si; Gen. purp. Si; Gen. purp. Si; Gen. purp. Si; Gen. purp.	Liniminin
IN541 IN542 IN625 IN626 IN627	00000	IR IR HU HU HU	30 Matcl 30 50 100	18 @ 10V ned pair of 1N541's 1.0 @ 20V 1.0 @ 35V 1.0 @ 75V	30 30 30 30	Si; Gen. purp. Si; Gen. purp. Si; Gen. purp. Si; Gen. purp.	49.667
IN628 IN629 IN636A IN643 IN645	DDDEE	HU HU IR TI TI	150 200 45 175 225	1.0 @ 125V 1.0 @ 175V 1.0 @ 25V 1 @ 100V .025 @ 10V	30 30 30 5 400	Si; Gen. purp. Si; Gen. purp. Ge; Gen. purp. Si; Switching Si; Switching	2.3
IN659 IN660 IN661 IN662 IN663	шшшшш	TI TI TI TI	50 100 200 80 80	5.0 @ 50V 5.0 @ 100V 10 @ 200V 20 @ 50V 5.0 @ 75V	30 30 30 5 5	Si; Switching Si; Switching Si; Switching Si; Switching Si; Switching	1.60
IN914 IN2326 COI GOI GO2	MHMMH MHMMH	TI RCA TI TI	75 1 40 100 50	5 @ 75V (10 ma. max. @ 7i 10 @ 40V .50 @ 100V .25 @ 50V	10 ° C.) 4 125 50	Si; Switching Ge; Compensating Si; Computer Si; Gen. purp. Si; Gen purp	3.05
G129 G130 G222 G296 HD2120	EEEED	TI TI TI TI HU	Refere Refere 100 200 75	ence range: .504 .616 ence range: .576 .704 1.0 @ 100V 1.0 @ 200V .5 @ 50V	125 250 5	Si; Reference Si; Reference Si; Gen. purp. Si; Gen. purp. Si; Gen. purp.	1.37.85
HD2 25 HD2 35 HD2 55 TI-2 fI-6	DDDHE	HU HU HU TI TI	130 75 60 40 20	.05 @ 50V .1 @ 50V .50 @ 50V .025 @ 10V 1.0 @ 10V	3 5 50 50 10	Si; Gen. purp. Si; Gen. purp. Ge; Point Contact Si; Switching Si; Switching	.8 .6 .8 3.0 1.6
		HOF	FMA	N ECONOMY	ZE	NER DIODES	

High-quality, low-cost zener diodes. All are rated 150 milliwation at 25° C; derate 1 milliwatt/degree C above 25° C. Maximur operating temperature rating is 100° C. Shor wt. 2000.

7	To Ca ca Ca	C 1001116 10 100	C. Dirpe	5. W.L., 2 OD.	
Mfr's Type	PIV	Imr @ 25° C	Ifwd	Vz Min.	NET EACH
HB-I	6.8	.005 @ 3.5V	17.0	7.5	
HB-2	. 18	.005 @ 10V	5.0	20	
HB-3 HB-4	36	.010 @ 20V	2.7	40	14 A
HB-5	68 150	.020 @ 39V .040 @ 82V	0.9	170	.44
UR 6	170	075 @ 15037	3.0	200	

TEXAS INSTRUMENT ZENER DIODES

Have max. power dissipation (Pt) of 400 mw @ 25°C; Io of 230 m

Type No.	Description	Dynamic Zener Imp. (Zz)	NET EAC
N703 N704 N705 N706 N707	3.0-3.9 v. breakdown 3.7-4.5 v. breakdown 4.3-5.4 v. breakdown 5.2-6.4 v. breakdown 6.2-8.0 v. breakdown	45 ohms 35 ohms 20 ohms	2.60

INTERNATIONAL RECTIFIER EXPERIMENTERS' ZENER KIT

Kit includes 12 zeners with ratings of from 5 through 30 volts and from 34 to 10 watts. For labs, schools, home experimenters, etc. Have many applications in industrial electronics, instrumentation, meter and speake protection. Shpg. wt., 1 lb. protection. 54 E 402. NET 9.50

SILICON ZENER DIODE HANDBOOK

By Motorola. A fully illustrated guide to basic theory, design characteristics and applications. 182 pages. Size, 5½x8½".

2.00

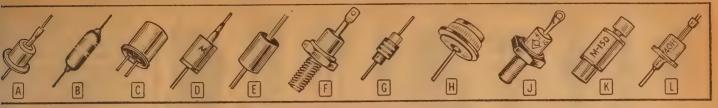
ZENER SLIDE-RULE CALCULATOR

Makes calculations associated with Motorola zeners, 5x121/4", 3 oz. 1.00

NET EACH 1.00

General Purpose Silicon Rectifiers

MAKE ALLIED YOUR HEADQUARTERS FOR SEMICONDUCTORS



GENERAL PURPOSE SILICON RECTIFIERS

selection of general purpose silicon rectifiers for the hobby the experienter, serviceman and radio Amateur. These units cover the entire nge of popular voltage and current values. All are products of leading mponent manufacturers and incorporate the highest standards of ality, reliability and consistency of specification. They are equally itable for inclusion into newly designed original equipment, or for placement use in existing electronic devices. Can also be used to nvert vacuum tube power supplies into modern, cool-running silicon

rectifier power units. Explanations of column heads and symbols in table below: PIV, peak inverse voltage. Io (Ma) @ °C., maximum average rectified forward current in milliamperes at the ambient temperature specified. Imr (Ma) @ °C., maximum reverse current in milliamperes at the ambient temperature specified. Isur (A) @ 25°C., maximum surge-current rating in amperes at the ambient temperature of 25°C. *Miniature type. †In microamperes. Av. shpg. wt., 2 oz. Be sure to specify Manufacturer and Type No. on rectifier orders.

Туре		Manu-	PIV	Io (Ma)	Imr (Ma)	Isur (A)	NET	Туре	Fin	Manu-	PIV	lo (Ma)	Imr (Ma	a)	sur (A)	NET
No.	Fig.	facturer	Volts	@ 0°C.	@ °C	@ 25°C.	EACH .85	No. 1 N2069	Fig.	facturer	Volts 200	@ 0°C.	@ 0°C	250	@ 25°C.	.57
191 192	A	GE GE	100 200	150 55° 100 55° 75 55°	1.4 55° .95 55°	25 25	1.95	I N2069A	ĒE	SYL*	200 400	750 25° 750 25°	10 2	25°	6	.76 .72
N93 N253	A F	GE SYL	300 100	1000 135°	.60 55° .10 150°	25 15	1.19	N2070 N2070A	E	SYL*	400	750 25°	10 2	25°	6	.96
N254	F	SYL	200	400 135° 400 135°	.10 150° .15 150°	15	1.25	N207 N207 A	E	TI SYL*	600	750 25° 750 25°		25° 25°	6	1.49
N255 N256	F	SYL SYL	400 600	400 135°	.25 150°	15	2.85	I N2483/F4	EE	ST	400	750 100° 750 100°	1.0 2	25° 25°		1.15
N440B N441B	AA	TI TI	100 200	750 50° 750 50°	.75 25°	15 15	.62 .65	N2484/F6 N2487/40H	L	ST	400	750 100°	1.0	25° 25°	75	1.10
N442B	AA	TI	300	750 50°	.001 25° 1.5 25°	15	.74	IN2489/60H	L D	MOT	100	$750 100^{\circ}$ $750 50^{\circ}$.01	25°	30	1.05
N443B N444B	A	TI	500	650 50°	1.5 1.8 25° 25° 25°	15	1.05	IN2611 IN2612	D	MOT MOT	200 300	750 50° 750 50°	.01	25° 25°	30 30	1.18
N445B N536 N537	A	TI GE	600	650 50° 750 50°	.40 150°	15	.53	IN2613	D	MOT	400 500	750 50° 750 50°	.01	25°	30 30	1.70
N537 N538	A	RCA	100	750 50° 750 25°	.40 150° .30 150°	15	.60	IN2614 IN2615	D	MOT	600	750 50°	.01	25°	30	2.30
N539 N540	A	RCA RCA	300 400	750 25° 750 50°	.30 150° .30 150°	15 15	.86	I N2616 I N3193	DA	MOT RCA	500 200	750 50° 750 100°	.01	25° 25°	30	4.85
N547	A B	RCA	-600	750 50°	.35 150°	15	1.57	N3194 N3195	A	RCA RCA	400 600	750 100° 750 100°	.01	25° 25°		1.39
N576A N584	B	GE	380	400 559		*,* * *	1,50	IN3196	A	RCA	800	750 100°	.01	25°	250	1.82
N599 N600	A	TI	50 100	400 50° 400 50°	.025 25°	10	.56	1 N3208 1 N3208 R	H	MOT	50 50	15000 150° 15000 150°	1.0	25° 25° 25°	250	1.55
N601 N602	A	ŤÎ TÎ	150 200	400 50° 400 50°		10 10	2.94	I N3209 I N3209 R	H	MOT MOT	100	15000 150° 15000 150°		25°	250 250	1.60
N603	A	TI	300	400 500	.025 25°	10	1.03	LN3210	H	MOT MOT	200 200	15000 150° 15000 150°		25° 25°	250 250	2.15
N604 N605	A	TI	400 500	400 50° 400 50°	.025 25°	10 10	1.40	N3210R N3211	H	MOT	300	15000 1509	1.0	25° 25°	250 250	2.70
N606 N607	A	TI	600	400 50° 1000 50°		10 10	1.67	N32 R N32 2	H	MOT MOT	300 400	15000 150° 15000 150°	1.0	25°	250	2.70
N608	A	TI	100	1000 50° 1000 50°		10 10	.89	1N3212R 2F-4	HE	MOT ST	400	15000 1509		25°	250	3.30
N609 N610	AA	TI	150 200	1000 509	.025 25°	10	2.70	M150 M500/	K	ST	360	1500 100		25°	• • • •	.90
N611 N612	A	TI	300 400	1000 50° 1000 50°	.025 259	10	2.78	IN1084	K	ST	400	500 100		25°	200	1.50
N613 N614	AA	TI	500 600	1000 50° 1000 50°		10	1.48	M R322 M R322 R	H	MOT MOT	50 50	18000 150° 18000 150°	2.0	25° 25° 25°	300 300	.82 .82 .90
N645	B	TÎ TÎ TÎ	225	400 25° 400 25°	.20† 25° .20† 25°		2.12	M R323 M R323 R	HH	MOT	100	18000 150° 18000 150°	2.0	25°	300 300	.90
N646 N647	В	TI	400	400 25	.20† 25°		3.40	M R324	H	MOT	200	18000 150	2.0	25°	300	1.35
N648 N649	B	TI	500 600	400 25° 400 25°			4.12	M R324 R M R325	H	MOT MOT	200 300	18000 150 18000 150	0 2.0	25°	300	1.70
N1095 N1096	A	MOT	500	750 50°	.30 150		1.24	M R325 R M R326	HH	MOT MOT	300	18000 150 18000 150	0 2.0	25° 25°	300 300	2.15
N1199	A	IR	50	1200 150	10 1909	200	3.00	M R326 R PS005	H	MOT	400	18000 150		25° 00°	300	2.15
N 200 N 202	J	IR IR	100 200	1200 150 1200 150	° 10 190°	200	3.60	PS010	G	PAC	100	140 100	0100 1	00°	1.5 1.5	1.47
N1341 N1342	J	IR IR	100	600 150 600 150	o 10 190°	150	2.75 3.25	PS015 PS020	G	PAC PAC	150 200	140 100	° 100 1	00°	1.5	2.33
N1344	J	IR	200	750 25	10 1909		4.50	PS025 PS030	G	PAC	300	140 100 140 100	0 100 1	00°	1.5	2.80
N1487 N1488	A	GE GE	200	750 25	° .30 125°	15	.68	PS035 PS040	Ğ	PAC PAC	350	140 100		00°	1.5 1.5	3.00
N1489 N1490	A	GE GE	300 400	750 25 750 25	° .30 125°	15	.83	PS050	Ğ	PAC	500	140 100	° 100 1	00°	1.5 1.5	3.20
N1491 N1492	A	GE GE	500	750 25 750 25		15	1.43	PS060 PS405	G	PAC	50	150 150	500 1	00°	1.2	1.20
N1563A	V C	MOT MOT	100	1500 25 1500 25	° .15 150°		1.35	PS410 PS415	G	PAC	100	150 150 150 150	° 500 1	00°	1.2	2.13
N 564A	C	MOT	300	1500 25 1500 25	° .15 150°	70	2.25	PS420 PS425	Ğ	PAC PAC	200 250	150 150 150 150		00°	1.2	2.60
N1566A	A	GE	$\frac{400}{100}$	600 50	.50 100	20	.59	PS430	G	PAC	300	150 150	° 500 1	00°	1.2	2.85
N1693 N1694	A	GE GE	200 300	600 50 600 50		° 20	.63	PS435 PS440	G	PAC PAC	350 400	150 150 150 150	° 500 1	.00°	1.2	3.10
N1695 N1696	A	GE GE	400	600 50 600 50	° .50 100	° 20	.96	PS450 PS460	G	PAC PAC	500	125 150 125 150		00°	1.2	3.20
N1697	A	GE	600	600 50	.50 100	20	1.41	U212 U213 U214	AA	TI	200 400	750 25 750 25	° 10 ° 10	25° 25°	6	.57 .72 1.12
N1763 N1764	A	RCA RCA	400 500	500 100 500 100		0	.83	U214	A	ŤÎ	600	750 25	0 10	25°	6	11.12

SARKES TARZIAN MINIATURIZED SILICON RECTIFIERS

Type M500. Clip-in silicon rectifier for TV replacement and miniaturization uses. Lower voltage drop (only 2 volts), provides increased +, greater drive and sweep, more anode voltage on set's CRT. Maximum ratings: AC input, 130 volts; peak inverse voltage, 400 volts; DC urrent, 500 ma; peak current, 5000 ma. Shpg. wt., 4 oz. Specify manucurer's name and Type No. on order.

NET EACH 1.40

Type M150. Similar to Type M500 silicon rectifier above, but has a maximum DC rating of 150 ma. Replaces Types 65 and 75 listed elsehere in this section. AC input is 130 volts; PIV is 360 volts. Shpg. wt. oz. Specify manufacturer's name and Type No. on order.

NET EACH .85

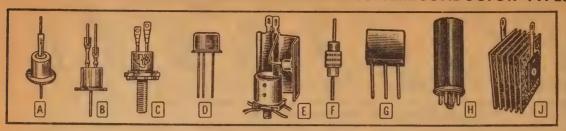
NET EACH .89

M500 Conversion Kit. (Not illus.) For TV sets or other electronic equipment using full-wave vacuum tube rectifiers. Permits easy conversion to silicon rectifiers for higher operating efficiency, cooler operation, fewer breakdowns and easier future replacement. Rectifiers clip in or out like fuses. Kit includes 2—M500 silicon rectifiers, dual mounting clip and hardward. 3/4x115/6x1". Shpg. wt., 6 oz.

4 A 699.

M150 Replacement Kit. Consists of an M150 silicon rectifier (described above), one clip and one 10-ohm, 1-watt resistor. Wt., 4 oz. 9 5 4 A 669. Single Mounting Clip. 3/4x115/6x1". Shpg. wt., 4 oz. NET. ...12 4 A 670. Dual Mounting Clip. 3/4x115/6x1". Shpg. wt., 4 oz. NET. ...24

ALLIED STOCKS OVER 4700 SEMICONDUCTOR TYPES



Allied constantl maintains the world largest, most complet stocks of top-qualit semiconductors. W are able to make same day shipment to you upon receipt of you order.

EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS

RECTIFIE

PIV, peak inverse voltage. Max. IDC, maximum surge current, 1 second at +25° to +150°C. IGT, gate current required to turn device on at 25°C with test specifications: 2000 ohm load resistance, 50 volt anode bias, and 1000 ohm gate shunt resistance. VF(off), forward voltage in the "off" condition at +125°C measured with a 1000 ohm external shunt

NEW G.E. GE-504 UNIVERSAL RECTIFIER

TI SILICON CONTROLLED RECTIFIERS

Economy priced silicon controlled rectifiers by Texas Instrument. Lowest priced 400 volt devices. All are PNPN 4-layer (3-junction) solid state thyratron units. All have IG+ of 50 ma. All-diffusion process insures utmost reliability in critical applications. Av. shpg. wt., 2 oz.

Mfr's	Fig.	VF(off)	I. @	BV _F	NET
Type		PIV	60° C.	@ 100°C.	EACH
TI-40A0	00000	50V	3A	60V	4.80
TI-40A1		100V	3A	120V	5.10
TI-40A2		200V	3A	240V	7.25
TI-40A3		300V	3A	360V	8.85
TI-40A4		400V	3A	480V	10.55
TI-140A0 TI-140A1 TI-140A2 TI-140A3 TI-140A4	B B B B	50V 100V 200V 300V 400V	750 ma 750 ma 750 ma 750 ma 750 ma	60V 120V 240V 360V 480V	4.80 5.10 7.25 8.85 10.55
TI-145A0 TI-145A1 TI-145A2 TI-145A3 TI-145A4	D D D D	50V 100V 200V 300V 400V	3A 3A 3A 3A 3A 3A	60V 120V 240V 360V 480V	4.80 5.10 7.25 8.85 10.55

G.E. CONTROLLED RECTIFIER MANUAL

G.E. GERMANIUM TV RECTIFIERS

Germanium TV power rectifiers for low-voltage power supplies. Feature compact size, increased output, long life, easy installation. Extremely low voltage drop. Types 1N1008 and 1N1016 have single hole mounting; Type 1N1024 requires 3 mtg. holes. All half-wave except *dual rectifier—wired for voltage-doubler applications. Shpg. wt., 3 oz.

		PIV	Max. DC Ma	Voltage Drop	NET EA.
N 008	130	380	400	.3	1.50
N 016*	130	380	400	.3	3.00
N 024	130	380	400	0.15	1.50

PACIFIC SEMICONDUCTOR "VARICAPS"

Silicon PN junction device permits varying circuit capacitance through control of bias voltage. Max. size: 265x.140" dia. 2 oz.

Mfr's	C	(μ μf)	11	Q	PIV	NET
Туре	@ 4V	Range	Min.	Туре	(V)	EACH
V7 V10 V12E V15 V20	7 10 12 15 20	3.0-18 4.3-26 2.7-31.0 6.5-39 10-50	13 13 4.0 13 7.0	18 18 6.5 18 18.7	25 25 100 25 20	3.05 3.05 3.05 3.05 2.75
V27 V33 V39 V47	27 33 39 47	14-70 17-85 20-100 24-120	7.0 7.0 7.0 7.0	15.7 14.6 15.1 15.4	20 20 20 20 20	2.75 2.75 2.75 2.75 2.75
V56 V68 V82 V100	56 68 82 100	32-145 39-175 47-210 57-260	7.0 9.0 9.0 8.0	13.5 14.0 13.0 11.0	15 15 15 15	2.75 3.05 3.05 3.05

G.E. SEMICONDUCTOR REPLACEMENT KIT



Model K-915. Convenient kit covers a majority of entertainment-type semiconductor replacement needs—an ideal aid for radio and TV servicemen. Contains 23 units of service-designed semiconductors including 5 universal transistors, 4 silicon rectifiers, 7 crystal diodes, 5 dual diodes, and 2 power transistors. Units are housed in a sturdy cabinet with 15 clearly labeled drawers—every unit lway wit in handly reach. Cabinet size, 81/4×121/8×9". Shpg. wt., 4 lbs.
4 E 001. List, \$38.20.........NET 19.99

resistance between cathode and gate. l_0 , maximum average rectifier forward current. BV_F , forward breakover voltage in the "off" condition with a specified value of Rg. $C(\mu\mu_f)$, typical capacity in micromicrofaradilised, minimum forward current. l_{mr} , maximum reverse current. PRV peak reverse voltage. PRV peak reverse voltage.

SELENIUM DUAL DIODE RECTIFIERS

GENERAL ELECTRIC VAC-U-SEL DOUBLE DIODES

Miniature double diodes for TV horizontal phase detector, replace ment and other applications. 7/6x%6x%6". Shpg. wt., 2 oz.

Type No.	lfwd	Imr	Description	Max. Case Temp.	NET EACH
6GC1 6GD1 6GX1	1.1 @ 2.5V 1.1 @ 2.5V 1.1 @ 2.5V	4 @ 20V	Common cathode Series connected Common anode	85° C 85° C 85° C	.54

INTERNATIONAL RESISTANCE DUAL DIODES

G Highly stable selenium dual diodes. Exact replacement units in man

Stock No. Mfr's T					
7 E 752 D4 7 E 753 D5 7 E 754 D6	47	33 @	25° C.	Common cathode Series connected Common anode	42

G.E. RECTIFIER SELECTION CHART

Handy slide rule picks optimum rectifier for your needs When average forward current is set against max. PRV am ambient temperature, rule lidicates proper rectifier. Shpg 52 E 563 NET 1.00

SARKES-TARZIAN TUBE-REPLACEMENT RECTIFIERS

Silicon rectifier plug-ins for direct replacement of vacuum tubes Feature long life, cool operation and high efficiency. Max. ambient temp., 100°C. Max. rms voltage 1100 v. for all types except S-5019, 1950 v.; S-5033, 3200 v.; S-5130, 7400 v.; S-5343, 5000 v. Sizes (above chassis): S-5011A, S-5017, S-5018, 2½/2x1½" dia.; S-5019, S-5033, 3¾x1¾ dia.; S-5130, 4½/6x1½" dia.; S-5018, ½½/2x1½" dia.; S-5251, 1½/2x1¾c" dia.; S-5251, 1½/2x1¾c" dia.; S-5251, 1½/2x1¾c" dia. S-5343, 3½/x1½" dia.; S-5347, 2x¾c" dia. Av. shpg. wt., 4 oz. Specify Manufacturer and Type No. on order.

Mfr's Type	JEDEC No.	PIV	DC Ma	Tubes Replaced	NET
S-5011A S-5017 S-5018 S-5019	1N1150 1N1237 1N1238 1N1239	1600 1600 1600 2800	750 750 750 750 500	80, 82, 83, 83V, 5Z3 OZ4, 5X4, 5Y4, 6AX5, 6X5 5AU4, 5AZ4, 5U4, 5W4, 5931, 6087, 6106 5R4	12.8 12.8 12.8 20.2
S-5033	1N1262	4500	250	6AU4, 6AX4, 6BL4, 6U4, 6W4, 12AX4	20.2
S-5130 S-5207 S-5251 S-5343 S-5347	1N2490 1N2389	10,400 1600 1600 7000 1600	300 500 600 300 500	866, 866A, 3B28 6X4, 6063, 6202 5AU4, 5AW4, 5AZ4, 5T4, 5U4, 5W4, 5Y3 816, 836, 3B28, 866 (reduced voltage) 6BW4, 12BW4	28.86 12.87 6.04 20.24 12.87

SARKES-TARZIAN SELENIUM RECTIFIER STACKS

Widely used as replacements in radio and TV sets, etc. Supply plate, filament and bias voltages directly from power line or from transformer. Maximum RMS input volts, 130. Maximum peak inverse voltage, 380. Approximate internal drop, 5 volts. Av. shpg. wt., 5 oz.

"CENTRE-KOOLED" STACKS

Stock			Class	NET EACH			
No.	Туре	Ma	Size	1-4	5-49	150-Up	
4 E 631	50	50	13/16 x 23/32 x 19/32"	.56	.51	.46	
4 E 6 1 6	65	65	1x1x11/16"	.74	.67	.60	
4 E 6 17	75	75	$1 \times 1 \times 13/16''$.80	.73	.65	
4 E 6 18	100	100	1 1/4 x 1 1/4 x 1 3/16"	.92	.84	.74	
4 E 620	150	150	11/4×11/4×111/64"	1.01	.92	.82	
4 E 621	200	200	119/32×119/32×1"	1.25	1.13	1.01	
4 E 622	250	250	119/32×119/32×15/16"	1.26	1.16	1.03	
4 E 623	300	300	119/32×119/32×17/8"	1.31	1.20	1.06	
4 E 627	400	400	2×2×15/16"	1.66	1.51	1.44	
4 E 625	500	500	2x2x1 ⁷ / ₈ "	1.72	1.57	139	

CONDENSED RECTIFIER STACKS RMS volts, PIV, and internal drop same as abo

Stock Mfr's		DC	61	NET EACH			
No.	Туре	Ma	Size	1-4	5-49	50-Up	
4 E 597	50-75 100-150 200-250 300-500	100-150 200-250	1½6x1½6x25/32" 1x1x13/6" 1¼x1¼4x1¼" 1½x1½32x119/32x115/6"	.48 .71 1.07 1.31	.43 .64 .96	.39 .58 .86	

Selenium Rectifiers, Thermistors, Ballasts

INTERNATIONAL RECTIFIER SELENIUM RECTIFIER STACKS

ligh current density selenium rectifiers with low forward rop and high inverse voltage ratints. All are bridge conected except that J14C04, J14C1, J14C5 and J14C8 have enter-tapped common cathode, and JD-4346B has a enter-tapped common anode. All battery charger types are angle-plate for trickle chargers, except JD4346B, which is a miversal fast-charger replacement. *Rated 100 amps when fan cooled t 800 linear ft./min. Av. shpg. wt., 12 oz.



HIGH-DENSITY POWER RECTIFIERS

Stock	Mfr's	Max. AC	DC O	utput		NET
No.	Туре	Input Volts	Volts	Amps	Size	EACH
E 834	J14C04	36 36	14 14	0.4	1x1x1½" 1½x1½x1½x1½"	.95 1.39
E 987	J14C5	36	14	4.8	3x3x1 ½" 4x4x1 ½"	3.48
E 988	J14C8 J29B04	36 36	14 29	8.4 0.4	1x1x1½"	1.57
E 837	129B5	36 36	29 29	1.5	1 ½x1 ½x1 ½" 3x3x25/8"	6.43
E 840	J29B8 J58B04 J58B1	36 72 72	29 58 58	8.4 0.4 1.5	4x4x2 ⁵ / ₈ " 1x1x2 ¹ / ₄ " 1 ¹ / ₂ x1 ¹ / ₂ x2 ¹ / ₄ "	8.93 3.11 4.49
E 842 E 843	J58B5 J58B8 J116B04	72 72 144	58 58 116	4.8 8.4 0.4	3x3x43/16" 4x4x43/16" 1x1x313/16"	12.08 16.75 5.56
E 989	J116B1 J116B5	144 144	116 116	1.5	1 ½x1 ½x3 ¹³ / ₁₆ " 3x3x7 ³ / ₁₆ "	8.15
LE 847	J116B8 J135B04 J135B1	144 180 180	116 135 135	8.4 0.4 1.5	4x4x7¾6″ 1x1x4¾6″ 1½x1½x49/6″	32.09 6.77 9.93
LE 849	J135B5 J135B8	180 180 180	135	4.8	3x3x8 ¹ 1/ ₁₆ " 4x4x8 ¹ 1/ ₁₆ "	28.29

BATTERY CHARGING TYPES

Stock Mfr's		DC Output		AC Input	61	Wt.,	NET
No.		Volts	Amps	Volts	Size	Lbs.	EACH
1 E 798 1 E 799	JD-4346B JD-116K JD-117K JD-241K	0-13 0-13 0-13 0-13	*30 2 2.7 6.0	16.5/33 16.5 16.5 16.5	6x5x4½" 3x3x½" 4x4x½" 6x5x5"	3 2 2 2	16.75 1.20 1.80 2.46

LOW VOLTAGE TYPES

Miniature selenium rectifiers for small power applications Miniature selenium rectifiers for small power applications where relatively low voltage is required. Ideal for use in just supplies, DC filament supplies, solenoid and relay bower supplies, 2 and 6-volt battery chargers, trickle battery chargers, etc. Suffix "H" in type number indicates single plate, half wave type; suffix "B" in type number indicates full wave, bridge type rectifier. "H" builts are rated for minimum resistive loads shown in table below. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Max. DC Ma.	Max. Rms Volts	Min. Series Load Ohms	Size	NET
4E822 4E823 4E824 4E825	O1H A1H B1H C1H	65 100 150 250	25 25 25 25 25	47 22 15 5	2/3x2/3x7/16" 1x1x7/16" 12/5x12/5x7/16" 11/2x11/2x7/16"	.36 .38 .40 .42
4E826 4E827 4E828 4E829	M1H Q1B Q4B	500 100 100 180	25 25 130 25		2x2x ⁷ /6" ² / ₃ x ² / ₃ x ³ / ₄ " ² / ₃ x ² / ₃ x1 ⁵ / ₁₆ " 1x1x ³ / ₄ "	.56 .84 I.56 I.22
4E830 4E831 4E832	C1B	300 600 12 00	25 25 25		1 ² / ₅ x1 ² / ₅ x ³ / ₄ " 1 ¹ / ₂ x1 ¹ / ₂ x ³ / ₄ " 2x2x ³ / ₄ "	1.28

I.T.T. SELENIUM RECTIFIER STACKS

MINIATURE TYPES

Fully miniaturized selenium rectifiers for limited space applications. Types 1016 and 1017 are bridge-connected. Internal voltage drops: Types 1001, 1013, 1512—1.2 volts; Types 1016, 1017—2.4 volts; Types 1002A, 1003A, 1004A, 1005A, 1101A, 1159—7 volts; Types 1007, 1014—9 volts. Type 1013 is excellent for charging small 2 and 6-volt batteries, such as those used in electronic photoflash equipment. Type 1512 is for trickle charging 6-volt auto batteries. *1159 is ultra-compact tubular rectifier enclosed in paper tube; has 1½" leads. † RMS indicates max. input voltage. All have locking lug. Av. shpg. wt.,

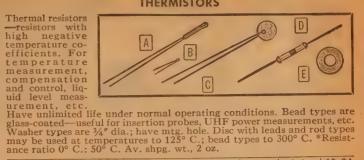


Stock No.	Туре	DC Ma	† RMS	Size	NET EACH
4 E 662	1159, 1002A	20 65	130 130	*½" dia.x¾" 1x1x%6"	.65
4 E 606 4 E 602	1003A	75	130	$1 \times 1 \times \frac{3}{4}$ "	.71
4 E 668 4 E 913	1001 1007	75 75	20 160	1x1x ³ / ₈ " 1x1x2!/ ₁₆ "	2.32
4 E 915 4 E 600	1014 1004A	100	160 130	1%2×1%2×1" 1%2×113/6×3/4"	1.59
4 E 661 4 E 603	1101A 1005A	100 150	130 130	1×1×1 ½" 1½3×1 1¾4×1"	.94
4 E 604	1013	450 300	18 25	1 ¹⁷ / ₃₂ ×1 ¹⁷ / ₃₂ × ¹ / ₄ " 1 ¹³ / ₆₄ ×1 ⁹ / ₃₂ × ³ / ₈ "	1.35
4 E 666 4 E 664	1017 1512	600	25 26	1 ¹⁷ / ₃₂ ×1 ¹⁷ / ₃₂ ×3/ ₄ " 2 ¹ / ₂ ×2 ¹ / ₂ ×3/ ₈ "	1.56

COMPACT HI-DENSITY TYPES
Feature high current capacity; extremely compact size. Eliminate installation problems where space is limited. Maximum rms input, 130 volts. Maximum peak inverse volts, 380. Internal drop, 7 volts. All have locking lugs. Individually boxed. Av. shpg. wt., 4 oz.

Stock No.	Type	DC Ma	Size	NET EA.
4 E 918	1234A-H	65-75	1½6x1½6x2½2″	.59
4 E 919	1235A-H	100-150	1x1x3¼″	.68
4 E 677	1237A-H	300-500	117/32x117/32x13/8″	1.29

FENWAL ELECTRONICS THERMISTORS, KITS **THERMISTORS**



			hog, w	

Stock No.	Type No.	Fig.	Style	Ohms @25°C.	RR*	1-9, EACH	10-24 EACH
9 E 909		В	Bead	100,000	10.3:1	2.70	2.16
9 E 910	GA51P2†	A	Bead	100,000	10.3:1	2.00	1.60
9 E 911	GB3212‡	\B	Bead	2000	7.3:1	2.70	2.16
10 E 097	GB32P2‡	В	Probe	2000	7.3:1	2.00	1.60
54 E 172	GC32L3	В	Bead	2000	5.7:1	3.50	2.80
9 E 9 1 4	KA31L1		Disc	1000	9.1:1	.85	.68
9 E 915		C	Disc	100	6.9:1	.85	.68
9 E 9 1 6	QA51J1	D	Rod -	100,000	9.1:1	1.25	1.00
9 E 917	RB33L1	D	Rod	3150	7.1:1	1.20	.96
9 E 9 18	RB41L1	D	Rod	10,000		1.35	1.08
9 E 9 1 9	WA21W1	E	Washer	100	9.1:1	1.25	1.00
9 E 925	WB11W1	E	Washer	10	6.9:1	1.25	1.00

THERMISTOR KITS



G-701. (Not illus.) Basic thermistor kit includes 4 glass beads and 6 probes in a wide range of resistance values for all applications, With application manual and data and curve computer. Shpg. wt., 10 oz. 9.95

FENWALL THERMISTOR COMPUTER-MANUAL COMBINATION

JFD BALLASTS

Quality TV, adjustable and step-down ballasts. Types 17A470303 and 17A485459 are keyed octal plug-in units for AC-DC TV sets. No. 9 E 886 is an 8-prong adjustable plug-in type that replaces ballast types beginning with K, L, M, BK, BL, BM having numbers 45 through 105 and ending with letters A, B, C, D, F, G, H, S-1, 2 or 3. All have perforated shells for maximum dissipation and radiation of heat. Have large insulating surfaces. Av. shpg. wt., 6 oz.



Stock No. Type		Stock No.			
9 E 860 17A47030	3 Motorola	9 E 886	,	Adjustable	2.94
9 E 861 17A48545	9 Motorola				

CLAROSTAT UNIVERSAL RESISTOR TUBES

Clarostat resistor tubes for voltage-reducing applications. For replacement of all AC-DC tubes beginning with letters BK, BL, K, L and M; and corresponding numbers and letters given below. Order tubes according to letter and numeral designation of tube being replaced. For example, to replace a BK-23-A tube, or an M-55-D tube, the Clarostat Type 23-55-A would be used, etc. Shpg. wt., 6 oz.



Stock	Mfr's	Tube Num-	Ending in	NET
No.	Type	bers From:	Letter:	EACH
9 E 853	23-55-A	23 to 55	A, B, C, D	1.91
9 E 855	23-55-F	23 to 55	F, G, H	

CONSOLIDATED AC-DC RESISTANCE LINE CORDS

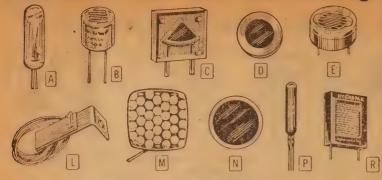
Heavily insulated resistance line cords. Supply proper filament voltage for tubes wired in series across 115 v. lines. 135 and 160-ohm cords can also be used for 1-lamp, 15 and 20-watt fluorescent light units. *For use with 3-way battery portables. All have color-coded tinned leads. Variations of ±10% in resistance are permissible. Choose given resistance value nearest that desired. Av. shop wt., 6 oz.



Stock No. Type	Ohms	EACH	StockNo.	Туре	Ohms	EACH
49 T 522 2401 49 T 520 2402 49 T 515 2404 49 T 512 2405	135 160 290 330	.71	49 T 511 49 T 510 49 T 525	2406A	350 390 560	.71

49 T 580. 220-110 Voit Step-Down Cord. Rated at .2 amps. 1.32

Photocells, Solar Cells and Sensing Devices



CLAIREX PHOTOCONDUCTIVE CELLS

Variable resistors controlled by light—ideal for automation and control. In hermetically sealed glass enclosures. Have high ratio of light to dark current at low light levels. All have power dissipation of 75 mw @ 25°C, except *500-250 mw (with and without heat sink). 3 oz.

Stock No.	Type No.	Fig.	Sens. Mat.	Encl. (in.)	Pk. Spec. Resp., A	Max. V. Rating	Light Res. Ohms	NET EACH
4E 101 4E 102 4E 103 4E 104	CL402S CL403S CL403A CL403AS CL403ASL	A A A	CdS CdSe CdSe CdSe CdSe	.265x1 .265x1 .265x1 .265x1 .265x1	5150 7350 7350 7350 7350 7350	300 300 300 300 60	1M 133K 75K 75K 3.5K	4.00
4E 105 4E 106 4E 107 4E 108 4E 109	CL4048 CL4048L CL405-IS CL405-ISL CL407S	A A B B A	CdSe CdSe CdS CdS CdS	.265x1 .265x1 .265x1 .265x1 .265x1	6900 6900 5500 5500 6150	300 60 300 60 300	30K 1.5K 166K 7.5K 133K	4.00
4E 0 4E 1 4E 12 4E 13 4E 14	CL504* CL504L* CL505* CL505-I* CL505-IL*	B B A A	CdSe CdSe CdS CdS CdS	.5x.5 .5x.5 .5x.5 .5x.5 .5x.5	6900 6900 5500 5500	250 60 250 250 60	1.5K 0.25K 9K 9K 1.5K	4.00
4E 15 4E 16 4E 17 4E 18 4E 19	CL505L* CL602 CL603 CL603A CL603AL	B B B B	CdS CdS CdSe CdSe CdSe	.5x.5 .25x.5 .25.x5 .25x.5 .25x.5	5500 5150 7350 7350 7350	60 300 300 300 60	1.5 K 1 M 133 K 75 K 3.5 K	4.00
4E 20 4E 21 4E 22 4E 23 4E 24	CL604 CL604L CL605 CL605-I CL605-IL	B B B B B	CdSe CdSe CdS CdS CdS	.25x.5 .25x.5 .25x.5 .25x.5 .25x.5	6900 6900 5500 5500 5500	300 60 300 300 60	30K 1.5K 166K 166K 7.5K	4.00
4E 125 4E 126	CL605L CL607	B	CdS CdS	.25x.5 .25x.5	5500 6150	60 300	7.5K 133K	4.00 4.00

SOLAR SYSTEMS SILICON PHOTOCELLS

Photovoltaic, encapsulated light detectors. Ideal for operating relays, control circuits, light sensing. Can be fed directly into low impedance transistor circuits. Provide instantaneous response—20 μ sec. max. No aging; unaffected by temperature. Plastic case is supplied with terminal pins to plug into octal based socket. Ay. wt., 2 oz.

Stock	Type	Type Fig.		Outpu ched l	t with Load	Size	NET
No.	No.	9,	Ma	Mv	Nw		EACH
4 E 300	SS-100	C	15.0	400	60.0	1x1x1/4"	6.00
4 E 301	SS-200	D	60.0	400	24.0	1 1/4" dia.	12.00

POLARIS "MAJ-I" PHOTOCELL

Resistor-type, cadmium sulphide photocell. Res., 200 ohms @92.9 ft.-candles; 10 meg in total darkness. Max. change 0.2 meg/sec. Max. power dissipation: 0.2 w. @ 40° C.; max. v.:110 v. AC (peak) or DC. Capacity, 6 mmfd. ½" dia.; 5/6" thick. Shpg. wt., 3 oz.

NET 1.97

HOFFMAN PHOTOVOLTAIC READOUT CELLS

Encapsulated silicon cells. Have 0.5x0.08" dia.; 2" leads. Output is measured at 1250 FC; 2800°K, 55°C. Use 1000 ohm load. Dark reverse current is measured at -1 volt bias, 55°C, 1 FC maximum. 10 µsec max. response. Peak spectral response, 0.85 microns. Av. wt., 2 oz.

Stock	Туре	Out	put	Dark Reverse	NET	
No.	No.	μa.	Mv	Current	EACH	
4 E 654 4 E 206 4 E 655 4 E 656	EA7E1 EA7E2 EA7E3 EA7E5	300 300 250 200	300 300 250 200	5 μα 10 μα 10 μα 20 μα	8.25 7.50 6.40 5.75	

SILICON SOLAR CELLS BY SOLAR SYSTEMS

Convert light into DC power. Instantaneous response—20 µsec. max. Peak sensitivity at 0.85 microns. Output measured at 100 mw/cm² of input energy @ 25°C. Unmounted, with 6″ leads. Av. thickness, .025″. 2 oz.

Stock No.	Type	Fig.		Ou,tpu ched	t with Load	Size	NET	
140.	No.		Ma	Mv	Nw	0.20	EACH	
4 E 302	SS-10-4L	00000	18.0	400	7.2	.8x.4"	1.95	
4 E 303	SS-10-6L		27.0	400	10.8	.8x.4"	2.40	
4 E 304	SS-10-L		36.0	400	14.4	.8x.4"	3.60	
4 E 305	SS-11-L		12.0	400	4.8	.4x.4"	2.25	
4 E 306	SS-12-L		5.0	400	2.0	.4x.2"	1.45	
4 E 307	SS-20-L	H	12.0	400	4.8	.8x.2"	3.50	
4 E 308	SS-21-L	H	5.0	400	2.0	.4x.2"	2.20	
4 E 309	SS-22-L	H	2.5	400	1.0	.2x.2"	1.40	
4 E 310	SS-23-L	H	1.3	400	0.52	.2x.1"	1.00	
4 E 311	SS-30-L	J	60.0	400	24.0	1.125" dia.	7.50	
4 E 3 I 2	SS-31-L	J	15.0	400	6.0 24.0	0.281" dia.	2.25	
4 E 3 I 3	SS-40-L	K	60.0	400		.8x.8"	9.50	

A wide variety of devices for 1) accurately measuring light levels, 2) measuring humidity in the air, 3) using light to control electrical equipment and, 4) converting light energy into electrical power. Photoconductive types are high value resistors whose resistances greatly decrease when light shines on their photosensitive surfaces. Photovoltaic types convert light directly into useable power; can be used for powering transistorized radios, operating relays and battery chargers.

H

INTERNATIONAL RECTIFIER EXPERIMENTAL CELLS

A wide variety of top-quality silicon solar cells and selenium photocells for the experimenter and designer. These units can be used to power transistor radios, light meters, small motors, relays, etc. Selenium photocells have a spectral response similar to the human eye, and are used extensively in light meters and other optical devices. Silicon cells have a higher light conversion efficiency, particularly in sunlight, and are the same type of cells used for charging batteries in space satellites. All are mounted in molded plastic cases, except *which has a mounting bracket. In table below, all are silicon cells except †selenium cells. Included with each cell is the highly informative, 24-page Experimenter's Handbook. Av. wt., 3 oz.

IF



Your Purchase

Stock	Stock Type		Ou	itput		NET	
No.	No.	Fig.	Volts	Ma	Size	EACH	
7 E 876 7 E 877 7 E 879 6 E 494 6 E 495	*†B2M †B3M S1 M S3 M S5 M	L M M M M	.34 .345 .685 .685	2 1½-2½ 10-16 10-16 18-25	1/2x3/4" 11/8x11/8x3/16" 11/8x11/8x3/16" 11/8x11/8x3/16" 11/8x11/8x3/16" 11/3x11/8x3/16"	1.50 1.75 2,25 3.95 4.95	

INTERNATIONAL RECTIFIER CADMIUM SULPHIDE CELL

HOFFMAN SOLAR CELLS

For converting light to DC power. Output shown is load output measured at 100 mw/cm² solar equivalent radiation from tungsten source at 2800°K, in an ambient temperature of 28°C. Speed of response is 20 µseconds or less. Peak response is at 0.85 microns, Av. wt., 2 oz.

Stock		Load Output			NET		
No.	No.	Fig.	Ma	Nw	Niv	Size	EACH
4 E 200	2A	N	100	40.0	400	1.125" dia.	7.50
7 E 759	120C	F	34	13.6	400	$0.4 \times 0.8''$	2.40
4 E 201	110C	F	17	6.8	400	0.4x0.4"	1.90
4 E 202	52C	. F	15	6.0	400	0.2x0.8"	3.60
4 E 203	51C	F	7.5	3.0	400	0.2x0.4"	2:50
4 E 204	55C	F	3.8	1.5	400	0.2x0.2"	1.50
4 E 205	- 58C	F	1.8	0.72	400	0.2x0.1"	1.00

TEXAS INSTRUMENTS NPN SILICON DEVICES

Diffused photo-duo-diodes. Hard glass, hermetically sealed cases are set with focused lenses. Leads are gold-plated. Length: 0.600" (max.) dia.: 0.082 ± .003". Dark current is leakage across diode with no incident radiation; light current is measured at 9 mw/cm² incident radiation in 0.7 to 1.0 micron bandwidth, at 25°C and ±10 v. Av. wt., 3 oz.

Type	Max.	Dark	Light	NET
No.	Bias	Current	Current	EACH
I N 2175	± 50	0.5 μα	200 μα	11.50
H-11	± 50	0.5 μα	60 μα	4.00
H-35	± 50	0.5 μα	90 μα	5.30
H-38	± 50	10.0 μα	200 μα	4.00

HYGROPAK HUMIDITY SENSING ELEMENTS

Utilize special sensitive substances coated on a thin film to measure humidity by electronic means. Highly sensitive to water vapor. Type HA for use in grid circuits to control relays, etc. Type HA-26 for use in bridge circuit with 0-1 ma meter. Both decrease in resistance with humidity increase. Pins spaced 3/4", 3/6" long. Range: between 30% and 100% relative humidity. 1x11/6x1/4". Shpg. wt., 4 oz.

Stock No.	Type No.	Description	NET		
7 E 746	HA-26	Under 100K to over 100 megs	3.00		
7 E 747		50 ohms to 100 ohms	3.00		
7 E 748		Socket for above	.30		

INTERNATIONAL RECTIFIER ECONOMY SOLAR CELL KIT

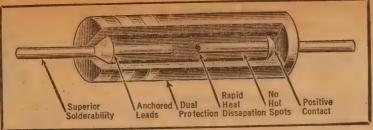
..... NET 1.98

INTERNATIONAL RECTIFIER PHOTOCELL HANDBOOK

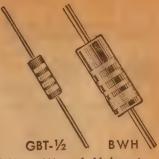
Explains the construction, design and operation of circuits utilizing photocells and solar cells. Includes educational charts, data and information on over 75 light-operated projects. 112 pages. 6x9... 2.00



FREE Color Code Guide with purchase of 20 or more resistors. Specify Stock No.2 M770.



IRC TYPE GBT FIXED CARBON COMPOSITION RESISTORS



Type GBT and SR Fixed Composition. Choose from 10% (Table A) or 5% (Table B) tolerances. Meet or exceed MIL-R-11 specifications. Withstand 50-100% overloads for short periods of time. EIA (RETMA) coded. Sizes: GBT-½, 25%4x%4"; GBT-1, %6x7½"; SR, 11/6x5/6". Figure after hyphen in Type No. indicates wattage rating. Values may be assorted for quantity price.

New Type BWH 2-Watt Fixed Wire-Wound. Values to 1000 Ohms. Choose from 10% (Table A) or 5% (Table B) tolerances. Rated @ 2-w. to 158°F ambient temp.; 1-w. @ 239°F; and ½-w. @ 279°F. Meet MIL-R-11C specs. Small as 1-w. composition. EIA (RETMA) coded; wide first band. Inductance .04-4.5 μh from .24-1000 ohms. Values may be

				-10%	6 II	NOO	LA	EL
TYPE	GRT	SR	10%	FIXED	CO	MPO:	SITIO	N

TYPE GBI, SK 10/0 FIXED COME CONTINUE										
C. I	T	AAU	Values	NET EACH						
Stock No.	Type and Wattage	Equiv.	See Table "A"	1-9	10-99					
M M 000	GBT-1/2	RC20	10 Ω to 22 megs	.12	.09					
MM 020	GBT-1	RC32	10 Ω to 22 megs	.18	.11					
MM 070	SR-2	RC42	10 Ω to 22 megs	.24	.17					

assorted for quantity price. SULATED GBT, SR AND BWH TYPES-NEW TYPE BWH 10% 2-WATT FIXED WIRE-WOUND 1000 Ohme

32	Values See Table "A" 10 Ω to 22 megs 10 Ω to 22 megs 10 Ω to 22 megs	.18	10-99 .09 .11	No. MM 076 MM 077	RWH	See Table "A" 27 ohms thru 8.2 ohms 10 ohms thru 1000 ohms No values above 1000 ohms	1-9 .24 .18	.18	

TABLE "A"- 10% EIA (RETMA) VALUES-SPECIFY RESISTANCE WANTED

		140			/0 =			01	Ohms	Ohms	Ohms
Ohmo	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms			5.6 meg
Ohms	-			120	560	2700	12,000	56,000	0.27 meg	1.2 meg	
0.27	1.2	5.6	27		680	3300	15,000	68,000	0.33 meg	1.5 meg	6.8 meg
0.33	1.5	6.8	33	150	820	3900	18,000	82,000	0.39 meg	1.8 meg	8.2 meg
0.39	1.8	8.2	39	180		4700	22,000	0.1 meg	0.47 meg	2.2 meg	10 meg
0.47	2.2	10	47	220	1000			0.12 meg	0.56 meg	2.7 meg	12 meg
0.56	27	12	56	270	1200	5600	27,000		0.68 meg	3.3 meg	15 meg
0.68	3.3	15	68	330	1500	6800	33,000	0.15 meg	0.82 meg	3.9 meg	18 meg
	3.9	18	82	390	1800	8200	39,000	0.18 meg		4.7 meg	22 meg
0.82	1 7	22	100	470	2200	10,000	47,000	0.22 meg	1.0 meg_	J T. Fines	
1.0	4./) 44	1 100	1							

-5% INSULATED GBT, SR AND BWH TYPES-

TYPE GBT, SR 5% FIXED COMPOSITION

	-		Values	NET	EACH
Stock No.	Type and Wattage	Equiv.	See Table "B"		10-99
MM 025	GBT-1/2 GBT-1 SR-2	RC32	10 Ω to 22 megs 10 Ω to 22 megs 10 Ω to 22 megs		.19 .28 .37

NEW TYPE BWH 5% 2-WATT FIXED WIRE-WOUND

- 1	A4 C.1	Values to 1000 Ohms	NET	EACH
Stock No.	Mfr's Type	See Table "B"	1-9	10-99
I MM 078 I MM 079	BWH BWH	.24 ohms thru 9.1 ohms 10 ohms thru 1000 ohms No values above 1000 ohms	.47	.40

TABLE "B"-5% EIA (RETMA) VALUES-SPECIFY RESISTANCE WANTED

		TAB	TFR	-5% EI	A (KEIMA		01	Ohms	Ohms	Ohms	Ohms
Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms		0.24 meg	1.1 meg	5.1 meg
0.24	1 1	5.1	24	110	510	2400	11,000	51,000 56,000	0.24 meg	1.2 meg	5.6 meg
0.27	1.2	5.6	27	120	560	2700 3000	12,000 13,000	62.000	0.30 meg	1.3 meg	6.2 meg
0.30	1.3	6.2	30	130	620 680	3300	15,000	68,000	0.33 meg	1.5 meg	6.8 meg
0.33	1.5	6.8	33	150 160	750	3600	16,000	75,000	0.36 meg	1.6 meg	7.5 meg
0.36	1.6	7.5	36			3900	18,000	82,000	0.39 meg	1.8 meg	8.2 meg
0.39	1.8	8.2	39	180	820 910	4300	20,000	91,000	0.43 meg	2.0 meg	9.1 meg
0.43	2.0	9.1	43	200	1000	4700	22,000	0.1 meg	0.47 meg	2.2 meg	10 meg 11 meg
0.47	2.2	10 11	51	240	1100	5100	24,000	0.11 meg	0.51 meg	2.4 meg 2.7 meg	12 meg
0.51	2.4	12	56	270	1200	5600	27,000	0.12 meg	0.56 meg		
0.56		13	62	300	1300	6200	30,000	0.13 meg	0.62 meg	3.0 meg 3.3 meg	13 meg
0.62	3.0	15	68	330	1500	6800	33,000	0.15 meg	0.68 meg 0.75 meg	3.6 meg	16 meg
0.68 0.75	3.6	16	75	360	1600	7500	36,000	0.16 meg 0.18 meg	0.73 meg	3.9 meg	18 meg
0.82	3.9	18	82	390	1800	8200	39,000 43,000	0.18 meg	0.91 meg	4.3 meg	20 meg
0.91	4.3	20	91	430	2000	9100	47,000	0.22 meg	1.0 meg	4.7 meg	22 meg
1.0	4.7	22	100	470	2200	10,000	1 11,000				

MULTI-RANGE 10-WATT WIRE-WOUND RESISTORS



Type MR. Versatile resistors combining 4 separate 10-watt elements in a single, compact unit. With instructions for connecting element leads to provide up to 47 different resistance values within the ranges listed below. Shpg. wt., 3 oz. 2 per pkg.

Stock	No.	Туре		Resistance Range	NET PER PKG.
31 M	581	MR2 MR3	47 values	from 0.5 through 15 ohms from 5.0 through 150 ohms from 50 through 1500 ohms from 500 through 15,000 ohms from 3000 through 50,000 ohms	1.20 1.20 1.20 1.20 1.80



Type 55 Power Resistor Assortment. A complete power resistor kit consisting of 10 Type MR multi-range resistors. Kit includes 2 of each Type MR resistor listed in the table at left. Highly recommended for schools and laboratories, experimenters, Amateurs, etc. 200 different resistance values can be obtained from these 10 multi-range units. Provides complete all the way from 0.5 ohms to 50,000 ohms. Steatite housings provide excellent insulation. Supplied in convenient plastic box. Size, 11/4x 51/4x31/2°. Shpg. wt., 1 lb.



WIRE-WOUND POWER RESISTORS

Fixed

Highly-reliable, "Resisteg" coated power resistors. Tolerances: fixed, ±5%; adjustable, ±10%. All types of 25-watt rating or higher, supplied with mtg. brackets. All rated 100 watts or less have eyelets for screw mounting plus leads, except *leads only; types rated over 100 watts have eyelets only. Specify resistance and wattage when ordering. Av. shpg. wts., 5 to 50-watt types, 4 oz.; others, 1 lb.

TABLE "A" VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms							
1 -	12	75	350	800	2000	5000	11K	20K	55K	95K
1.5	15	100	400	900	2250	6000	12K	22.5K	60K	100K
2	20	125	450	1000	2500	7000	12.5K	25K	65K	125K
3	25	150	500	1100	2750	7500	13.5K	30K	70K	150K
4	30	200	600	1200	3000	8000	15K	35 K	75K	175K
5	35	225	650	1250	3500	8500	16K	40K	80K	200K
7.5	40	250	700	1500	4000	9000	17.5K	45 K	85K	250K
10	50	300	750	1750	4500	10K	18K	50K	90K	

FIXED POWER RESISTORS (SEE TABLE "A" ABOVE FOR VALUES)

TYPE 1A-5-8 WATTS-1x5/16"

MM 25 1100 to 5K except 2750 MM 252 6K to 10K except 8500 MM 253 12.5K to 20K*except 13.5K, 16K, 18K	_	Stock No.	Ohms See Table "A" Above	NET Each
16K, 18K	-	M M 251 M M 252	1100 to 5K except 2750 6K to 10K except 8500	.52 .55 .58
1 WW 254 22.5K* and 25K* only .6			16K, 18K 22.5K* and 25K* only	.65

1 MM 27011	to 1000 except 650	.57
MM 27 1	100 to 5K except 2750	.61
I MM 272 6	K to 10K	.70
I MM 273 1	1K to 20K	.79
I MM 274 2	22.5K to 40K	.83
I MM 268 4	5K and 50K only	.93

TYPE 2C-20 WATTS-2x7/6"

1	MM 278	1 to 1000 except 1.5, 7.5, 12,	
		15, 20, 30, 35, 40, 125, 225, 450, 600	.68
1	MM 279	1200 to 5K	.70
1		6K to 10K except 8.5K	.83
1	MM 281	12.5K to 20K except 13.5K.	
		16K, 17.5K and 18K	.85
1	MM 282	25K to 40K	.99
1	MM 283	45K to 60K	1.15
1	MM 258	65K to 80K	1.37
1	MM 259	85K* to 100K*	1.57

TYPE 2D-25 WATTS-2x%6"

-	MM 203	1, 2, 3, 4, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, 500.	
. 1	MM 204	750, 800, 1000 1.5K to 5K except 1750, 2250, 2750 and 4500	.72
Ī	MM 205 MM 206	6K, 7.5K, 10K only 12K, 15K, 20K only	.85
İ	MM 207 MM 208	25K to 40K 50K and 60K only	1.04
1	M 210	70K and 80K only 100K only	1.42

TYPE 4D-50 WATTS-4x%6"

Stock No.	Ohms See Table "A" Above	NET Each
1 MM 290	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	1.11
1 MM 291	1.5K to 5K except 1750, 2250, 2750, 3500 and 4500	1.14
I MM 292	7.5K, 8K and 10K only	1.23
	12K, 15K and 20K only	1.35
	25K and 35K only	1.54
	50K only	1.72
	75K only	1.97
I M 228	100K only	2.13
I M 229	125K only	2.57
I M 330	150K only	2.70
1 M 331	175K only	2.79
	200K only	2.89
	250K only	3.24

TYPE 61/2E-100 WATTS-61/2x3/4"

-			
1	MM 309	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 125, 150, 250, 500,	
ш	WW 311	750, 1000 1.5K, 2K, 2.5K, 3K, 5K only 7.5K and 10K only 15K and 20K only	1.54 1.60 1.73 1.87
	MM 236 MM 237 M 238	25K, 30K, 40K only 50K and 60K only 75K only 100K only	2.13 2.21 2.45 2.75

TYPE 101/2H-200-225 WATTS-101/4-11/4"

_			/0
1	MM 441	1, 2, 3, 4, 5, 10, 25, 50, 75,	
ı	MM 442	100, 150, 250, 500, 750, 1000 1.5K, 2K, 2.5K, 3K, 5K only	2.46
į	MM 443	7.5K and 10K only	2.53
H	M M 444	15K and 20K only 25K, 30K and 40K only	2.89
ij	MM 446	50K and 60K only	2.98
H	M 447	75K only 100K only	3.26
	IVI 440	1100K only	3.46

ADJUSTABLE POWER RESISTORS (SEE TABLE "A" ABOVE FOR VALUES) TYPE 13/4AA-10-12 WATTS 13/4x5/16"

Stock No.		Ohms See Table "A" Above	NET Each	
1	MM 275	1 to 1000 except 1.5, 4, 12, 30, 35, 40, 125, 225, 450, 650, 700 and 900	1.14	
1	MM 276 MM 277	1250 to 5K except 1750, 2750 6K to 10K	1.18	
	TYP	E 2DA-25 WATTS-2x%6"		

		- ZDA - ZD WAIIJZA/10	
1	MM 284	1 to 1000 except 1.5, 4, 12,	
		30, 35, 40, 125, 225, 350,	
		450, 600, 650, 700 and 900	1.29
1	MM 285	1250 to 5K except 1750 and	
		2750	1.32
1	MW 286	6K to 10K except 8.5K	1.42
-	MM 287	12K, 15K, 20K only	1.47
, į	M 288	25K only	1.61
	TYP	E 4DA-50 WATTS-4x%6"	-

· i	WW 294	1, 2, 3, 4, 5, 10, 25, 50, 75,						
		100, 150, 200, 250, 300, 400,						
		500, 750, 800, 1000	1.68					
н	MM 295	1250 to 5K except 1750, 2750	1.71					
П	MM 296	6K to 10K except 8500	1.80					
I	MM 297	12K, 15K and 20K only	1.92					
1	MM 298	25K, 30K, and 50K only	2.11					
Т	MM 299	50K and 60K only	2.29					
		80K only	2.54					
1	M 308	100K only	2.70					
	TYPE SEA75 WATTC5-3/-//							

ı		E 3EA-75 WATTS-3X%	
Ī	MM 211	1, 2, 3, 4, 5, 10, 25, 50, 100, 250, 500 and 1000 only	
		250, 500 and 1000 only	1.86
ı	MM 212	1.5K, 2.5K and 5K only	1.95
ı	M 213	10K only	2.09
ı	MM 214	15K and 20K only	2.22

TYPE 5EA-75 WATTS (Cont'd)

Stock	Ohms	NET	
No.	See Table "A" Above	Each	
I M 216	25K, 30K and 40K only 50K only 75K only 100K only	2.41 2.60 2.87 3.10	

TYPE 61/2 EA-100 WATTS-61/2 x 3/4"

1 MM 312	1, 2, 3, 4, 5, 10, 25, 50, 100,	
I MM 313 I M 314	250, 500 and 1000 only 1.5K, 2.5K and 5K only 10K only 15K and 20K only	2.11 2.17 2.30 2.44
I M 317	25K, 30K and 40K only 50K only 75K only 100K only	2.70 2.78 3.02 3.32

TYPE 101/2HA-200-225 WATTS-101/2×11/8"

T	MM 377	1, 2, 3, 4, 5, 10, 25, 50, 100,	
		250, 500 and 1000 only	3.34
ı	MM 378	1.5K, 2.5K, 5K only	3.41
1		10K only	3.59
	MM 380	15K and 20K only	3.77
T	MM 381	25K, 30K and 40K only	3.86
П	M 382	50K only	3.96
П	M 383	75K only	4.14
	M 384	100K only	4.34
_			

E	xtr	a Sli	ders.	For	adju	stab	le r	esi	sto	rs.	3	Ò:
2	M	600.	For	13/4A	A. N	ET.			:			Л
2	M	604.	For	2DA	4D	4. N	ET					. 1
2	M	605.	For	5EA.	61/5]	EA.	NE	т.			۰	п
2	M	603.	For	81/2 H	A, 1	01/2 F	IA.	N	ET		Ü	2



RESISTOR ASSORTMENTS

Space saving cabinets have 4 drawers and 28 compartments. Each resistance value is in a separate compartment. 5%x5156x1076".

METAL RESIST-O-CABINETS

METAL RESIST-O-CABINETS Assortment No. 3A. 120 2-watt resistors at follows: 7 each: 8200, 10K, 22K, 47K; 5 each 1K, 6800, 15K, 0.1 meg; 4 each: 100, 330, 470 1500, 2200, 3300, 4700, 27K, 1.0 meg; 3 each 47, 82, 150, 220, 270, 3900, 0.22 meg, 0.47 meg 2 each: 4.7, 10, 22, 68; 1 each: 15, 27, 33, 39 With Resist-O-Cabinet. 4½ lbs.28.80 2 M 776. NET.....

Assortment No. 4A. 150 IRC ½-watt resistors. 8 each: 1K, 47K, 0.1 meg, 0.27 meg, 470K. 1.0 meg; 7 each: 4700, 10K, 0.22 meg, 2.2 meg 5 each: 3300, 22K, 27K, 33K, 0.33 meg, 4.7 meg: 4 each: 100, 470, 1500, 2200, 2700, 56K, 68K, 3.3 meg; 3 each: 47, 220, 270, 10 meg With Resist-O-Cabinet. Wt., 4½ lbs. 2 M 777. NET.

AXIAL-LEAD POWER RESISTORS



PW-5 AND PW-10

TABLE "B" (OHMS)—SPECIFY VALUES

1	20	125	600	1500	1 4000	1 8500
2	25	150	700	1750	4500	9000
.3	30	200	750	2000	5000	10.000
4	40	250	800	2250	6000	12,000
5	50	300	900	2500	7000	12,500
7.5	75	350	1000	3000	7500	15,000
10	100	400	1200	3300	8000	20,000
15	120	500	1250	3500	8200	25,000

AXIAL-LEAD "RESIST-O-CARD" **RESISTOR ASSORTMENTS**

RESISTU-CARD @ ------------

Type PW-5X10. IRC 10-watt resistors. 1 ea: 10, 20, 25, 50, 100, 500, 1K, 2K, 4K, & 5K. I M 176. NET... 2.50 Type PW-5 X20. 5-watt resistors. 1 ea: 1, 5, 7.5, 10, 15, 20, 25, 50, 100, 150, 500, 750, 1K, 1250, 1.5K, 2K, 2.5K, 3K, 4K, 5K.

Type 20-A. 10-watt resistors. 1 ea: 50, 75, 100, 250, 500, 750, 1K, 1.5K, 2K, 3.9K, 4K, 5K, 6K, 7.5K,

2.5K, 3K, 3.3K, 8,2K, 10K, 15K. I M 191. NET..

IRC RESISTORS

1/2-WATT 1% PRECISION RESISTORS-MIL-10509



ype DCC. Precision, unmolded, filmpe carbon resistors for circuits requiring high voltage ratings and low noise vels as in instrumentation, advanced ectronics, and critical color TV circuits.

alues indicated in Table "A" below. Have low voltage coefficient, scellent frequency characteristics and small size. 1/2-watt rating. Meet ringent military specification, MIL-10509. Ratings, 40°C. Be sure to pecify values when ordering. Av. shpg. wt., 3 oz.

Page anger	Stock No.	Mfr's Type	Mil. Type	Values See Table "A" Below	NET
Total Control	MM 492 MM 493	DCC DCC	RN20X RN20X	10 ohms-100 ohms 110 ohms-1.96 megs	.64

TABLE "A" VALUES-SPECIFY VALUES WANTED

			Ohman	Ohms	Ohms	Ohms
Ohm	Ohms	Ohms	Ohms			
10	61.9	383	2150	12.1 K	68.1 K	383K
11	68.1	422	2370	13.3K	75K	422K
	75	464	2610	14.7K	82.5K	464K
12.1		511	2870	16.2K	90.9K	511K
13.3	82.5		3160	17.8K	100K	562K
14.7	90.9	562		19.6K	110K	619K
16.2	100	619	3480		121K	681 K
17.8	110	681	3830	21.5K	133K	750K
19.6	121	750	4220	23.7K		
21.5	133	825	4640	26.1 K	147K	825 K
23.7	147	909	5110	28.7 K	162K	909K
26.1	162	1000	5620	31.6K	178K	1 meg
28.7	178	1100	6190	34.8K	196K	1.1 megs
	196	1210	6810	38.3K	215K	1.21 megs
31.6		1330	7500	42.2K	237K	1.33 megs
34.8	215		8250	46.4K	261 K	1.47 megs
38.3	237	1470	9090	51.1K	287K	1.62 megs
42.2	261	1620			316K	1.78 megs
46.4	287	1780	10K	56.2K		
51.1	316	1960	11K	61.9K	348K	1.96 megs
56.2	348				1	1



Designed to keep stocks within quick, easy reach—end "cigar box confusion." Handy-Paks are uniform size for ½, 1 and 2 watts—one pack-size for each resistor value. Complete stocks are always visible. All resistors are 10% carbon composition types. Value and wattage clearly indicated on each pack, as well as by coding and size of visible resistors.

"RESIST-O-CADDY"

Well-organized and compact plastic pouch containing Handy-Paks folds to 634x37/8x11/2". Individual pockets keep packets secure and orderly—inventory is always visible. Ideal for in-home servicing. Type 41. Assortment of 120 1/2-watt resistors; 20 values, 47 ohms to 10

Type 45. Assortment of 80 1-watt resistors; 20 values, 47 ohms to 10

M 783.

"RESIST-O-CHEST"

B Convenient inventory. All-metal resistor filing cabinet supplied complete with a wide assortment of resistors in "Handy-Paks." Ideal for the service shop. Has hinged lid and metal separators to keep Handy-Paks orderly—right at your fingertips. Inventory list in lid helps you keep stock up-to-date. Size, 61/4x53/8x33/8". Shpg. wts.: 42 and 43, 21/4 lbs.; 46 and 47, 21/2 lbs.; 49A and 50A, 3 lbs.

	Vifr's Type	Description	EACH
2 M 787 2 M 788 2 M 789 2 M 790 2 M 791 2 M 792	43 46 47 49A	204 ½-watt resistors; 34 values, 47 ohms—10 megs. 462 ½-watt resistors; 77 values, 10 ohms—22 megs. 136 1-watt resistors; 34 values, 47 ohms—10 megs. 308 1-watt resistors; 77 values, 10 ohms—22 megs. 102 2-watt resistors; 34 values, 10 ohms—10 megs. 231 2-watt resistors; 77 values, 10 ohms—22 megs.	24.48 55.44 24.48 55.44 24.48 55.44

REPLACEMENT "HANDY-PAKS"

For replacement in above assortments. Standard "Handy-Pak" package of either six ½-watt, four 1-watt, or three 2-watt carbon resistors. 10% tolerances. Specify value desired. Av. shpg. wt., 6 oz.

			NET PER PACKAGE	
Stock No.	Wattage Rating	Quantity Per Pkg.	1 to 11, EA. 12 and Up, EA	
MM 487 MM 488	1/2	6.4	.72 .72 .72 .72 .54 .54	

OHMITE RESISTORS

FAMOUS "BROWN DEVIL" WIRE-WOUND RESISTORS

For voltage dropping, bias supplies, bleeders, etc. Have thick vitreous enamel coating—for excellent heat conduction and insulation; also protects against the harmful effects of humidity. Accuracy, $\pm 5\%$. Size: 5-watt units, 12%, 10-watt units, $134\times$, 20-watt units, $2\times$, 10-watt units, and length, 11, 11-with and length, 11, 11-with and length, 11, 12-with and length, 11, 13-with and length, 11, 13-with and length, 11, 13-with and 11, 13-with a



5-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

	Trvalian	AC 114 CO.	7 604 66 010 0 01 01			
Stock No.	Ohms	NET Stock		Ohms	NET	
I MM 730	1 to 1000 1100 to 5000		I MM 732	6000 to 10,000	.58	

10-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

Available in all val	ues to	30,000 excel		
I MM 701 1100 to 5000	.61	MM 703 MM 706 MM 707	12,500 to 20,000 25,000 to 40,000 45,000 and 50,000	.79 .83 .93

20-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

available in all values except those marked * in table "B" below.

I MM 720 1 to 1000 I MM 721 1200 to 5000	.68 I MM 724 .70 I MM 725 .83 I MM 726	25,000 to 40,000 45,000 to 60,000 65,000 to 80,000
MM 722 6000 to 10,000 MM 723 12,500 to 20,000	.85 MM 727	85,000 to 100,000 1.57

TABLE "B" VALUES-SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
Ohms 1	30* 35* 40* 50 75 100 125* 150 200 225* 250 300	350 400 450* 500 600* 700 750 800 900 1000 1100*	1250 1500 1750 2000 2250 2500 3000 4000 4500 5000 6000	7,000 7,500 8,000 9,000 10,000 12,500 15,000 20,000 25,000 30,000 40,000	45,000 50,000 55,000 60,000 65,000 70,000 75,000 80,000 85,000 90,000 95,000

OHMITE AXIAL-LEAD WIRE-WOUND RESISTORS

Axial-lead, ceramic-core resistors. Covered with vitreous enamel to withstand high temperature. Resistance wire and terminals welded to end caps to assure excellent stability and minimum noise. Well-suited for all applications where equipment is subject to high operating temperatures and adverse conditions. Tolerance: ±5% Wattage based on temperature rise to 300° C. 1½″ leads. Av. shpg. wt., 4 oz.

3 WATTS-%16x1/4" (SEE TABLE "C" BELOW FOR VALUES)

Stock No.	Ohms	EACH	No.	Ohms	EACH
2 MM 090 2 MM 095		.59	2 MM 110	5600-10,000	.66

5 WATTS-11/16x11/32" (SEE TABLE "C" BELOW FOR VALUES)

Stock No. Ohms	EACH	No.	Ohms	EACH
2 MM 15 2 MM 30 1200-5000 2 MM 35 5600-10,000	.66	2 MM 145 2 MM 146	12,000-20,000 22,000-25,000	.78 .82

10 WATTS-115/6x13/2" (SEE TABLE "C" BELOW FOR VALUES)

Stock No.	Ohms	EACH	Stock	No.	Ohms	EACH	1
2 MM 122 2 MM 123	1-1000	.73	NA NA C	126	12,000-20,000 22,000-40,000 47,000-50,000	1.00	

TABLE "C" VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1.0	15	120	500	1800	4700	8,200	25,000
1.5	20	150	600	2000	5000	9,000	27,000 30,000
2.0	25	200	700	2200 2500	5600 6000	12,000	33,000
3.0	30	220 250	750 800	2700	6800	15,000	39,000
5.0	40	300	900	3000	7000	18,000	40,000
7.5	50	330	1000	3300	7500	20,000	47,000 50,000
10,0	75	400	1200	3900 4000	8000	22,000	30,000
120	1 100	470	1500	4000			

IRC FUSE RESISTORS

Type FR 5. Same as above, but 5 ohms. 3 oz. 2 M 773. NET EACH..... Type FR 5.6. Same as above, but 5.6 ohms. 3 oz. 2 M 772. NET EACH.....

WIRE-WOUND POWER RESISTORS



Quality power resistors in fixed or adjustable values. Use adjustable types wherever a nonstandard value is desired or where a resistance or voltage divider requires initial or occasional adjustment to optimize a particular circuit. Tolerances of fixed resistors: ±10% below 1 ohm, ±5% other values. Adjustable types ±10% and come with slider. Mtg. brackets included with both types. All wire-wound units on ceramic cores protected and insulated by thick, vitreous enamel coatings. Wattage ratings apply where units used in free air; when listed are standard stock items at Allied for fastest delivery.

FIXED POWER RESISTORS

Stock No.	Specify Value—Ohms	EACH
I MM 770	.51, 1.0, 1.5, 2.2, 3.3, 4.7 6.8, 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1000	.57
MM 771 MM 772 MM 773 MM 774 MM 775	1200, 1500, 1800, 2200, 2700, 3300, 3900, 4700 5600, 6800, 8200, 10K 12K, 15K, 18K 22K, 27K, 33K, 39K 47K and 51K only	.61 .70 .79 .83

	25 WATT-2x%6"							
S	tock	No.	Specify Value—Ohms	EACH				
1	MM	776						
			50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	.72				
1	MM	777	1500, 2000, 2500, 3000,	• • • •				
,			3500, 4000, 5000	.75				
_	MM		6000, 7500, 10,000	.85				
į.	MM		12K, 15K, 20K	.90				
Ŧ	MM		25K, 30K, 35K, 40K	1.04				
1	MM		50K and 60K	1.21				
Ł	MM		70K and 80K	1.42				
	I M	782	100,000 only	1.64				
			50 WATT-4-94."					

50 WATT-4x%6"				
Stock No.	Specify Value-Ohms	EACH		
I M 769 I MM 783	1 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	1.55		
		1.11		
MM 784	1500, 2000, 2500, 3000, 4000, 5000	1.14		
MM 785 MM 836		1.23		

50 WATT-4x%6" (Cont'd)

Stock No.	Specify Value—Ohms	EACH
I MM 786 I M 787 I M 788 I M 789 I M 790	25K and 35K 50K only 75K only 100K only 125K only	1.54 1.72 1.97 2.13 2.57
M 791 M 792 M 793 M 794		2.70 2.79 2.89 3.24

100 WATT-61/2 x3/4 P			
Stock	No.	Specify Value—Ohms	EACH
I MM	768 795	125, 150, 250, 500, 750,	2.16
I MM I MM	796 797	1K ,	1.54 1.60 1.73
IMM	799 801 802	15K and 20K 25K, 30K and 40K 50K and 60K 75K only	1.87 2.13 2.21 2.45
_ I IVI	803	100K only	2.75
I M	803	100K only	

160 WATT—8½x1½°					
Stock No.	Specify Value—Ohms	EACH			
I MM 837 I MM 838	1, 2, 3, 4, 5 10, 25, 50, 75, 100, 125.	3.19			
I MM 839 I MM 841	150, 250, 500, 750, 1000 1.5K, 2K, 2.5K, 3K, 5K 7.5K and 10K	2.28 2.32 2.53			
I MM 842 I MM 843 I MM 844 I M 845 I M 846	15K and 20K 25K, 30K and 40K 50K and 60K 75K only	2.71 2.80 2.89 3.08			

"DIVIDOHM" ADJUSTABLE RESISTORS

Stock	No.	Specify Value—Ohms	EACH
1 MM			
MM		1K 1500, 2500, 5000 7.5K and 10K	1:14

75 M 883.	Extra Slider. 2 oz. NET.,	14
1	25 WATT-2x%6"	
Stock No.	Specify Value—Ohms	EACH
1 MM 807	1, 3, 5, 10, 15, 25, 50, 75, 100, 250, 500, 750, 1K	1.29
MM 808	1.5K, 2K, 2.5K, 3K, 5K 7.5K and 10K	1.32
1 MM 810	12K, 15K, and 20K 25K only	1.47
75 M 990	Fytes Slider 2 og NET	1/

	IAL O I I	Z3K	only		4 1 1 L	1.61
75	M 880.	Extra	Slider.	2 oz.	NET.	14
			NATT-			
Sto	ak Na	6	14. 3/-1.			

50 WATT—4x%6"				
Stock No.	Specify Value—Ohms	EACH		
I M 812 I MM 813	2, 3, 4, 10, 25, 50, 75, 100, 150, 200, 250, 500.	2.12		
1 MM 814	750, 1000 1500, 2000, 2500, 5000	1.68		
M 815 MM 816 MM 817 M 818		1.80 1.92 2.11 2.29		
75 M 880.	Extra Slider. 2 oz. NET.	2.70		

_				
5	stock	No.	Specify Value—Ohms	EACH
1	MM		1 and 2 3, 4, 5, 10, 15, 25, 50, 100, 200, 250, 300, 400,	2.39
1	MM	858	500, 750, 800, 1000 1250, 1500, 2000, 2250, 2.5K, 3K, 3.5K, 4K, 4.5K	1.87
ì	MM	859	5K 6K, 7K, 7.5K, 8K, 9K, 10K	2.01
L	MM	861	12K, 15K, 20K	2.13
-	MM	862 863 864 865	25K, 30K, 35K, 40K 45K, 50K, 60K 80K only 100K only	2.32 2.52 2.78 2.93
-				9.4

75 M 880, Extra Slider, 2 oz. NET......4

100 WATT-61/2x3/4"

S	itock	No.	Specify Value—Ohms	EACH
I	MM	821 822	1, 2, 3 4, 5, 10, 25, 50, 100, 250	2.73
		823 824	500, 1000 5K only	2.11 2.17 2.30
1	M M M M I M I M	825 826 827 828	25K and 40K only	2.44 2.70 2.78 3.32
7:	5 M 8	381.	Extra Slider. 2 oz. NET.	

"LITTLE DEVIL" MOLDED RESISTOR ASSORTMENTS



Plastic Storage Cabinet Included

Most-often-needed molded, insulated, composition assortment, 10 ohms to 10 megohms. Choose either $\frac{1}{4}$, $\frac{1}{2}$, 1 or 2 watt assortments. All are 10% tolerances. Cabinet is $\frac{43}{4}$ x9x5 $\frac{1}{4}$ " with 5 drawers, 40 labelled compartments. Wt., 3 lbs.

No.	Туре	Description	EACH
2 M 754	CAB-10 CAB-2		19.50 18.00 22.50 30.00

"LITTLE DEVIL" RESISTORS



Molded, insulated, composition resistors in standard ratings as well as subminiature 1/10 and 1/4-watt sizes. Choose from 10% (Table "A") or 5% (Table "B") tolerances except 1/10 watt, 10% only. Meet all MIL-R-11C spees. Dissipate heat rapidly; use at full rating to 158°F. Breakdown ratings: 1/10-w., 150 v.; 1/4-w., 250 v.; 1/2-w., 350 v.; 1-w., 500 v.; 2-w., 750 v. Shpg. wt., 2 oz.

SEE TABLE "A" BELOW FOR VALUES 10% TOLERANCE RESISTORS

Stock	Wattage	ASSORTED		
2 M M 050 2 M M 450 2 M M 040 2 M M 060 2 M M 080	1/10§ 1/4* 1/2	1-4 EA. .24 .13 .12	5-49 EA. .20 .11 .10 .15	50-99 EA. .16 .07 .06

§In values from 10 ohms to 1.0 megohm only. *In values from 27 ohms to 22 megohms only.

SPECIFY VALUES DESIRED 10% TOLERANCE RESISTORS Table "A"

Ohms	Ohms	Ohms	1 10/1 0 0 0	1 86
		Onms	Megs	Megs
10	220	4700	0.1	2.2
. 12	270	5600	0.12	2.7
15	330	6800	0.15	3.3
18	390	8200	0.18	3.9
22	470	10,000	0.22	4.7
27	560	12,000	0.27	5.6
33	680	15,000	0.33	6.8
39	820	18,000	0.39	8.2
47	1000	22,000	0.47	10.0
56	1200	27,000	0.56	12.0
68	1500	33,000	0.68	15.0
82	1800	39,000	0.82	18.0
100	2200	47,000	1.0	22.0
120	2700	56,000	1.2	22.0
150	3300	68,000	1.5	
180	3900	82,000	1.8	

SEE TABLE "B" BELOW FOR VALUES 5% TOLERANCE RESISTORS

Stock	101-44	ASSORTED		
Stock No. 2 MM 455 2 MM 045		1-4 EA. .26	5-49 EA. .22 .20	50-99 EA.
2 MM 065 2 MM 085		.36	.30	.12

from 27 ohms to 22 megs only.

SPECIFY VALUES DESIRED 5% TOLERANCE RESISTORS Table "B"

I dole D						
Ohms	Ohms	Ohms	Wegs	Megs		
10	220	4700	0.1	2.2		
11 12	240	5100	0.11	2.4		
12	270	5600	0.12	27		
13	300	6200	0.13	30		
15	330	6800	0.15	2.7 3.0 3.3		
16	360	7500	0.16	3.6		
18	390	8200	0.18	3.9		
20	430	9100	0.20	4.3		
22	470	10,000	0.22	4.7		
24	510	11,000	0.24	5.1		
27	560	12,000	0.27	5.6		
30	620	13,000	0.30	6.2		
33	680	15,000	0.33	6.8		
36	750	16,000	0.36	7.5		
39	820	18.000	0.39	8.2		
43	910	20,000	0.43	9.1		
47	1000	22,000	0.47	10.0		
51	1100	24,000	0.51	11.0		
56	1200	27,000	0.56	12.0		
62	1300	30,000	0.62	13.0		
68	1500	33,000	0.68	15.0		
75	1600	36,000	0.75	16.0		
82	1800	39,000	0.82	18.0		
91	2000	43,000	0.91	20.0		
100	2200	47,000	1.0	22.0		
110	2400	51,000	1.1			
120 130	2700	56,000	1.2			
150	3000	62,000	1.3			
160	3300 3600	68,000	1.5			
180	3900	75,000	1.6			
200	4300	82,000	1.8			
200 1	4300	91,000	2.0			

ALLIED CARRIES A COMPLETE LINE OF OHMITE RESISTORS IN STOCK FOR FASTEST DELIVERY ... WRITE, WIRE OR PHONE FOR PRICES ON UNLISTED ITEMS .

Resistors—Audio and IV Controls

OHMITE TYPE FR 71/2-OHM FUSE RESISTOR



G-C SURGISTORS

Surge resistors for increased receiving tube, CR tube and component life. Combine the functions of a resistor and a relay. Limit harmful initial voltage surge to 25% of normal, yet allow full voltage after warm-up. Connect directly into the power line. For use with 117 v., AC-DC. Av. shpg. wt., 7 oz. Stock



No.	Type	Watts	NET
552	25-894 25-896	100-275 250-400	1.40
553	23-090	250-100	11.21



G-C GLO-BAR "THERMISTORS"

Popular thermistors used in series-string filament circuits of RCA, Crosley, Philco, and other TV sets. A necessary service replacement item. *Matched pair; replaces filament resistors of G.E., M'rola, Philco, etc. Av. wt., 1 oz.



		_ Ohms		Replaces	The second second	10-Up
Stock No. T	Type	Hot	Cold.	Heplacoo	1-9	
2 M 066 2 M 067 2 M 068 2 M 069 2 M 053 2 M 054 2 M 055	25-912 25-914 25-916 25-918 25-920 25-922 25-924	20 75 31 35 11 50 10500	250 950 260 460 250 1050 at 125V.	GE RRW051 GE RRW041 GE RRW097 GE RRW054 M'rola 6A735941 Philco 33-1343-3 G.E. RRW052	1.12 1.12 1.12 1.47 .94 1.88	1.34 1.67
2 M 070 2 M 071 2 M 072	25-926 25-928 25-910	43 9 40	125 200 375	Crosley RCA 100118 *(see above)	1.47	1.58

G-C TV FUSE RESISTORS

Reliable, low-cost replacement units for series-string TV tube circuits. Replace similar units in Raytheon, RCA, Motorola, Sylvania, Zenith and other TV receivers. All units are less than an inch in length; tinned leads for quick and easy installation. Av. shpg. wt., 1 oz.



Stock No.	Туре	Ohms	List	1-9, EACH	10-Up, EACH
2 M 021 2 M 022 2 M 023	25-980-BU 25-984-BU 25-988-BU	5.6 7.5 9.0	\$.65 .65 .65 .65	.29	.24

HANDY OHM'S LAW CALCULATOR



Easy-to-use calculator. Solves problems in Ohm's Law and DC power. Shows power, voltage and current when resistance is known. By setting to two known values resistance can be determined. Also has parallel resistance calculator. Size, 9x3". Shogs, wt., 3 oz.

2 M 780. NET.

2 M 781. Deluxe Plastic Model. NET.

1.50

ALLIED'S COLOR-CODE GUIDE



CENTRALAB "COMPENTROLS"

Closely follow' the curves of the Fletcher-Munson effect. Low loss—do not require added amplification.



TYPE C-1. Combination volume control and tone compensator. Improves apparent bass and treble response of TV sets, radios, hi-fi, etc., when volume is at low level. Replaces existing volume controls. Types C1-60-S and C1-70-S have SPST switch. Shaft length, 3". 15/16" body dia. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Ohms	NET EACH
30 M 421	C1-60	1 meg	2.40
30 M 422	C1-60-S		2.85
30 M 423	C1-70		2.40
30 M 424	C1-70-S		2.85

TYPE C2-100 "SENIOR." Similar to C-1, left. Dual concentric type for replacing 250K to 2 meg volume controls in amplifiers, TV sets etc. Permits any degree of compensation at low listening levels. Shaft length, 7/8". 115/6" dia. With 2 knobs. 6 oz. 30 M 436. NET EACH .. 3.30

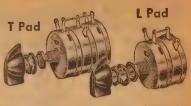
TYPE C2-200. Same as C2-100 Compentrol above, except in "Fastatch" design. Front and rear units separate; permits cutting shafts to desired length. 8 oz.
30 M 437. NET EACH....3.30

MALLORY CONTROLS

SPEAKER CONTROLS

Constant-load attenuator pads. Widely used to control the level of low-impedance audio circuits in sound systems. Rated level of low-impedance audio circuits in sound systems. Rated at 4 watts, continuous DC; 15 w. peak audio. Have 2" shafts. Bushing size: 3/kx3/k" diameter. Supplied with bar knob, 0-10 dial plate and wiring instructions. Av. shpg. wt., 7 oz.

T Pad Attenuators. Present constant source impedance as well as constant load at all control settings. Size: 15%" dia., 11%" deep.



L Pad Attenuators. Present a constant load impedance at all control settings. Size: 15/8" dia.,

Ohms	Stock No.	Туре	Stock No.	Туре
2	29 M 868	T2	29 M 883	L2
4	29 M 869	T4	29 M 884	L4
6	29 M 870	T6	29 M 885	L6
8	29 M 871	T8	29 M 892	L8
15	29 M 872	T15	29 M 886	L15
50	29 M 873	T50	29 M 887	L50
100	29 M 865	T100	29 M 920	L100
200	29 M 874	T200	29 M 888	L200
250	29 M 875	T250	29 M 889	L250
500	29 M 876	T500	29 M 890	L500
600 1000 2000 3000 4000	29 M 866 29 M 867 29 M 877 29 M 878	T600 T1000 T2000 T3000	29 M 921 29 M 922 29 M 891 29 M 923 29 M 708	L600 L1000 L2000 L3000 L4000

"T" Pads. NET EACH... 3.09 "L" Pads. NET EACH... 2.73

THEATER SPEAKER CONTROLS

Precision units developed especially as controls in drive-in theater speaker installations. Withstand extremes of temperature and humidity. TSA-10 is an L-pad with 10-ohm input and 4-ohm output. TSA-35 is a 35-ohm series-type potentiometer. TSA-6 is a 6-ohm shunt-type attenuator. 11/16" dia. cases. Shafts are 1/2" long; *steel (knurled), †brass. Shpg. wt., 4 oz.



Sto	ck	No.	Mfr's Type	Description	EACH
29 29	M	847 848 849	*TSA-10 *TSA-35	L-pad Potentiometer Shunt-type Attenuator	1.47 1.08 1.08

STEREO AND MONOPHONIC L-PAD CONTROLS

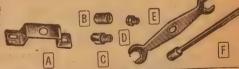
Constant impedance attenuators. Use as level controls in low-impedance, low-level audio circuits. LL-8, LL-16, LL-50 are dual-tandem for stereo balance or master volume; others for monophonic use. 15-watt rating. 294° rotation. Bushing: 1" by 3/6" dia. 11/2" shaft. Wt., 5 oz.



Stoc	k No.	Mir's Type	Ohms	NET EACH
29 N	097	LL-8	8	5.97
29 N	1 098	LL-50	50	5.97
	1071		16	2.85

VOLUME CONTROL ACCESSORIES

*Couples ¼" shafts to ¼", or ¼" to ¾6" shafts. †Extends body of control 5%" away from mtg. surface. Av. shpg. wt., 3 oz.



Circle No. 1	Tuno	Fig.	Description	EACH
Stock No. 29 M 676 29 M 6675 29 M 661 29 M 655 29 M 655 29 M 655 29 M 657 29 M 657 29 M 672 60 H 390	RB249 RB248 EB247† 178 RS242 RS243 RS244 RS245 EC240* UB241	AAACE FFFFBD	Mtg. bracket. Mtg. Ctrs. 2½" Mtg. bracket. Mtg. Ctrs. 1¾" Extender Wrench for ½"-%6" v.c. hex nuts Ext. shaft, 4x¼x½z" flat. Ext. shaft, 4x¼x¾z" flat. Ext. shaft, 4x¾cx¾d" flat. Ext. shaft, 2x¼4" with ¾z" slot. Coupling Bushing for panel mounting.	.57

JENSEN SPEAKER VOLUME CONTROLS

Two-section L-pads designed for controlling volume at individual speakers. Have no effect on volume of other speakers or total impedance. Feature rugged construction with special alloy windings and solder lug terminals. Provide smooth, gradual volume control. Single hole panel mounting. With lock nut, pointer knob and flat metal escutcheon plate. Av. shpg. wt., 1 lb.



Stock No.	Mir's Type	Ohms	Watts	NET EACH
33 M 942	ST-760	3-4	15	2.85
33 M 940	ST-276	6-8	15	1.91
33 M 938	ST-837	15-16	35	3.38

Q CONTROLS WITH UNIVERSAL SHAFTS



Knurled, flatted and slotted. 3" universal shaft can be cut to desired length. 15%" body dia. 3%" bushing, 14% long. Smooth, extremely quiet operation. *Includes 270 ohm, 1/2-watt bias resistor. Less switches (below). See taper explanations below. Av. shpg. wt., 4 oz.

Stock No.	Туре	Ohms	Taper	Stock No.	Туре	Ohms	Taper	
30 M 395 30 M 300 30 M 377 30 M 441 30 M 301	Q11-201 Q11-103 Q11-105 Q17-105 Q11-108	250 500 750 750 750 1000	A A A P A	30 M 318 30 M 388 30 M 875 30 M 444 30 M 374	Q13-128 Q11-228 Q11-328 Q13-328 Q11-129	100K 125K 150K 150K 200K	C A A C A	
30 M 379	Q17-108	1000	P	30 M 319	Q11-130	250K	A	
30 M 874	Q17-110	2000	Q	30 M 320	Q13-130 -	250K	C	
30 M 442	Q11-109	1500	A	30 M 445	Q11-131	300K	A	
30 M 380	Q17-109	1500	Q	30 M 876	Q11-132	350K	A	
30 M 302	Q11-110	2000	A	30 M 321	Q13-132	350K	C	
30 M 373	Q13-111	2500	C QA QA	30 M 322	Q11-133	500K	A	
30 M 381	Q17-111	2500		30 M 323	Q13-133	500K	C	
30 M 303	Q11-112	3000		30 M 324	Q14-133	500K	D	
30 M 382	Q17-112	3000		30 M 397	Q17-133	500K	Q	
30 M 304	Q11-114	5000		30 M 398	Q11-134	600K	A	
30 M 383	Q13-114	5000	C	30 M 390	Q11-136	750K	A	
30 M 384	Q17-114	5000	Q	30 M 325	Q11-137	1 meg	A	
30 M 305	Q11-115	7500	A	30 M 326	Q13-137	1 meg	C	
30 M 306	Q11-116	10K	A	30 M 327	Q14-137	1 meg	D	
30 M 307	Q13-116	10K	C	30 M 877	Q17-137	1 meg	Q	
30 M 308 30 M 385 30 M 309 30 M 310 30 M 311	Q14-116* Q17-116 Q11-119 Q16-119* Q11-120	10K 10K 20K 20K 25K	D Q A Spec. A	30 M 328 30 M 329 30 M 330 30 M 399 30 M 331	Q11-138 Q11-139 Q13-139 Q13-139 Q17-139 Q11-239	1.5 meg 2 meg 2 meg 2 meg 2 meg 2.5 meg	A A C O A	
30 M 443	Q13-120	25 K	C	30 M 332	O11-140	3 meg	A	
30 M 312	Q14-120*	25 K	D	30 M 333	O13-140	3 meg	C	
30 M 313	Q11-121	30 K	A	30 M 446	O17-140	3 meg	O	
30 M 396	Q11-122	35 K	A	30 M 334	O11-141	5 meg	A	
30 M 314	Q11-123	50 K	A	30 M 287	O12-141	5 meg	Spec.	
30 M 315	Q13-123	50K	C	30 M 392	Q13-141	5 meg	C	
30 M 316	Q14-123*	50K	D	30 M 393	Q17-141	5 meg	Q	
30 M 387	Q11-125	75K	A	30 M 394	Q11-142	7.5 meg	A	
30 M 317	Q11-128	100K	A	30 M 335	Q11-143	10 meg	A	
NET EACH								

TAPPED Q CONTROLS WITH UNIVERSAL SHAFTS

Stock No.	Туре	Megs	Taps, Ohms	Taper	Stock No.	Туре	Megs	Taps, Ohms	Taper
30 M 879 30 M 386 30 M 337 30 M 336 30 M 340 30 M 342 30 M 343 30 M 344 30 M 344 30 M 344 30 M 344	Q13-118X Q13-118XX Q18-130X Q18-130X Q18-132X Q18-132X Q18-133X Q19-133X Q19-133X Q18-133XX Q18-133XX Q18-133XX	.015 .015 .25 .25 .35 .5 .5 .5	10K 5K/10K 60K 125K 75K 25K 50K 125K 250K 100K/200K 250K	Spec. Spec. H Spec. H Spec. H Spec. Spec. H Spec. H	30 M 349 30 M 350 30 M 351 30 M 352 30 M 391 30 M 355 30 M 355 30 M 354 30 M 353 30 M 354	Q18-137X Q18-137XX Q19-137X QVC-539X Q13-138X Q17-139X Q18-139XX Q13-139XX Q18-139XX Q18-139X Q18-139X Q18-139X	1.0 1.0 1.0 1.5 2.0 2.0 2.0 2.0 2.0	100K 250K/.5 Meg. .5 Meg. .5 meg .25 meg 150K 250K/.5 Meg .5 Meg/1Meg .5 Meg 1 Meg 1 5 Meg	Spec. H
NET EACH									

TYPE 76 ATTACHABLE SWITCHES FOR Q CONTROLS

Blue bakelite enclosure. Easily attached. Type 76-4 is make-one, break-one for TV spot killing. U.L. Approved. Shpg. wt., 2 oz.

20 IN	291.	Ivpe	(b=2.	DPST	NET	0
						-

EXPLANATION OF TAPERS

Taper A. Linear

Taper C. Logarithmic curve for audio circuit control or antenna shunt control.

Taper D. Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is of prime importance in controlling gain.

Taper H. Tapped logarithmic curve. Audio level control for bass compensation.

Taper P. Semi-logarithmic curve with reverse taper. For use in contrast and picture control circuits in television.

Taper Q. Same applications as Taper P above, but has slightly steeper curve.

L AND T-PAD SPEAKER CONTROLS

Handle 10 watts audio. L pads provide constant input imped.; T pads, both input and output imped. Dia. 1½"; L pads 1½" deep behind panel; T pads, 12½". 3½" bushing, ½" long. With knob. Av. shpg. wt., 6 oz.

STOCK NO.		rau	Onms	EACH	Stock No.	Type	Pad	Ohms	EACH
30 M 880 30 M 881 30 M 882 30 M 883	LP8 LP15	L L L L	4 8 15 500	3.21	30 M 884 30 M 885 30 M 886 30 M 887	TP4 TP8 TP15	T T T	4 8 15 500	3.63

TYPE HLC TV HEIGHT CONTROLS



Quality potentiometers for controlling picture height (vertical size) in TV receivers. Have same specs as most original equipment. 1-watt power rating; 750 v. max., between outer terminals. Nylon shaft slotted and knurled; designed for any set. Tab mtg. Dia., 15/6". Wt., 4 oz.

led in any set.

		Megohms	Stock No.	Туре	Megohms
30 M 861 30 M 862 30 M 863	2	2.5	30 M 864 30 M 865 30 M 866	5	4.0 5.0 7.5
			1		0 ==

TV SIGNAL ATTENUATOR



Type QJ-3. Economically priced L-

Type QJ-3. Economically priced L-pad television signal attenuator. For use with sets having 300-ohm twin line antenna input. Minimizes interstation interference, definition loss and sound bars caused by excessive signal strength. Diminishes buzz or hum due to high signal level in intercarrier systems. Reduces overloading effects in strong signal area. In many cases, corrects or reduces horizontal or vertical jitters; also picture and sound "break-over." Very useful device to simulate fringe-area signals. A nearly constant 300-ohm load is maintained on antenna lead-in. With mtg. bracket and instructions. %" diameter, 1" deep. Shaft: ½" diameter, ½" long. Wt., 3 oz. 2.64

UNIVERSAL WIRE-WOUND CONTROLS



Rugged 4-watt controls. All have linear taper, except: types with L after types with L after ohms have left-hand logarithmic taper for TV focus, and types with R have right-hand logarithmic taper for picture contrast. Rotation, 300°. 1¼" dia., ²³½" deep; threaded bushing is ³½" dia. and ³½" long. Nickel-plated brass shafts, ¼" dia. Type WP has round shaft, ¾" long. Type WPK has 3" long "Knob Master" shaft—fits a wide variety of knobs. Type WPS has ³¼" long shaft, knurled at end and slotted. Specify Type and Ohms. Wt., 4 oz.

TYPE WPK CONTROLS

Ohms	Ohms	Ohms	Ohms	Ohms				
10	300	750R	2000L	5000L				
20	400	1000	2250L	6000				
30	500	1350	2500	6000L				
50	600	1350R	2500R	7500				
100	650	1500	3000	7500L				
200	750	1500L	4000L	10,000				
250	750L	2000	5000					
30 MM 216. NET EACH								
12,500 15,000 20,000 25,000 .								

30,000 | 40,000 | 50,000 |.....

TYPE WPS CONTROLS

25 40 60 250	500 500L 1000	1500 2000 2250	2250L 2500 3000	4000 4000L 5000
30 MM	217. NE	FEACH.		1.32

TYPE WP CONTROLS										
3	15	60	400	2500						
5	20 25	75	500	3000						
6	30	100 200	750 1000	4000 5000						
8	40	250	1500	7500						
10	50	300	2000	10,000						

15,000 | 20,000 | 25,000 |.........

30,000 | 40,000 | 50,000 |......

TYPE WPRL CONTROLS



Locking-type controls with screw-driver slot shaft, 1/4" dia. and approximately 1/2" long from mounting face. With 3/8" locking-type bushing and locking nut. Linear taper. Specify Type and Ohms. Shpg. wt., 4 oz.

Ohms	Ohms	Ohms	Ohms
15	60	400	2500
20	75	500	3000
25	100	750	4000
		1000	5000
		1500	7500
50	300	2000	10,000
	15 20	15 60 20 75 25 100 30 200 40 250	15 60 400 20 75 500 25 100 750 30 200 1000 40 250 1500

15,000 | 20,000 | 25,000 |...... 30,000 | 40,000 | 50,000 |.....

SWITCHES FOR ABOVE CONTROLS

Easily attached switches for WPK, WPS, WP and WPRL controls above. Shpg. wt., 2 oz. 30 M 218. Type 76-11. SPST. NET 30 M 219. Type 76-12. DPST. EACH...75

TYPE WM MULTISECTION CONTROLS

Ruggedly constructed 4-watt "add-on" control sections. Can be attached to the WPK, WPS, WP or WPRL controls, listed above, to form dual control units. All have linear taper, except type 7500L which has left-hand logarithmic taper for TV focus. 5/8" deep, Specify Type and Ohms. Shpg. wt., 2 oz.

Ohms	Ohms	Ohms	Ohms	Ohms
50	250	1500	3000	7500L
100	500	2000	5000	10,000
200	1000	2500		

Ohmite Rheostats and "AB"

WIREWOUND RHEOSTATS

nooth, dependable controls with solid ceramic res. Each turn, core and base is bonded by treous enamel. Copper-graphite contact brush, except *silver-graphite brushes. Ratings are full setting. Types H, J, K, and L mount on inels up to ¼" thick; Type N on panels up to ¼" thick. Specifications: Type H, dia. 19½"; the behind panel 13½"; Type J, dia. 2½%" depth behind panel 13½"; Type L, dia. 4½" depth behind panel 13½"; Type L, dia. 4½" depth behind panel 2½%, Type N, dia. 6½ depth behind panel 2½%. All are less knobs ee listing below Type N). Av. shpg. wt., 10 oz.

ee listing below Type N). Av. shpg. wt., 10 oz.										
		2	WATT	-TYPE H						
Stock No.	Mfr's Type	Res. Ohms	NET	Stock No.	Mfr's Type	Res. Ohms	NET			
M 700 M 701 M 702 M 703 M 704 M 705	0140* 0141 0142 0143 0144 0145	1 2 3 6 8 10	4.63	51 M 712 51 M 713 51 M 714 51 M 715 51 M 716 51 M 717	0152 0153 0154 0155 0156 0157	125 175 250 350 500 750	4.11			
I M 706 I M 707 I M 708	0146 0147 0148	15 25 35	4 11	51 M 718 51 M 719 51 M 720	0158 0159 0160	1000 1500 2500	4.63			
I M 709 I M 710	0149 0150 0151	50 75 100	4.11	51 M 721 51 M 722	0161 0162	3500 5000	4.90			
		5	O WAT	T-TYPE J						
M 723 M 724 M 725 M 726 M 727	0308* 0309* 0310* 0311 0312	0.5 1 2 4 6	5.15	51 M 736 51 M 737 51 M 738 51 M 739	0321 0322 0323 0324 0325	150 225 300 500 800	4.63			
M 728 M 729 M 730	0313 0314 0315	8 12 16		51 M 740 51 M 741 51 M 742 51 M 743	0326 0327 0328	1000 1600 2500	4.90			
M 731 M 732 M 733 M 734 M 735	0316 0317 0318 0319 0320	22 35 50 80 125	4.63	51 M 744 51 M 745 51 M 746 51 M 747	0329 0330 0331 0332	3500 5000 8000 10,000	5.15			
			O WAT	T-TYPE I						
M 748 M 749 M 750 M 751 M 752 M 753 M 753	0440* 0441* 0442* 0443* 0444*	0.5 1 2 3 5 7.5	7.72	51 M 760 51 M 761 51 M 762 51 M 763 51 M 764	0452 0453 0454 0455 0456	200 300 400 500 750	7.21			
	0445 0446 0447 0448	10		51 M 765 51 M 766 51 M 767 51 M 768	0457 0458 0459 0460	1000 1500 2000 2500	7.72			
51 M 755 51 M 756 51 M 757 51 M 758 51 M 759	0449 0450 0451	16 25 50 75 100	7.21	51 M 769 51 M 770 51 M 771	0461	5000 7500 10,000	8.24 8.76 9.26			
	150 WATT—TYPE L									
51 M 772 51 M 773 51 M 774 51 M 775 51 M 776 51 M 777 51 M 778	0526* 0527* 0528*	1 2 3 5 7.5	9.78	51 M 786 51 M 786 51 M 787 51 M 788 51 M 789 51 M 790	0541	150 200 250 350 500 750 1250	9.26 9.78 9.78			
5 M 779	0531	25		51 M 790 51 M 791 51 M 792 51 M 793	0544	1800 2250	10.30			

		- J	A	300	WAT	T—1	YPE N			
5551	Ni	798 799 800 801	0650* 0651* 0652* 0653*	1 2 3 4	le jer	51 51 51	M 809 M 810 M 811 M 812	0661 0662 0663 0664	100 150 200 300	
551	M	802 803 804 805	0654* 0655* 0656* 0657*	10 15	15.29	51 51 51	M 813 M 814 M 815 M 816	0665 0666 0667 0668	400 700 900 1200	15.29
51	M	806 807 808	0658 0659 0660	25 50 75		51 51	M 817 M 818 M 819	0669 0670 0671	1500 1750 2500	

KNOBS AND HANDWHEEL FOR RHEOSTATS

Black bakelite knobs for Ohmite rheostats. All are fluted except * which

is 31/4" dia. round handwheel with pointer. Av. wt., 5 oz. Stock For Rheostat NET Stock For Rheostat NET						
No.	Туре	EACH	No.	For Rheostat Type	EACH	
74 M 417	H, J, K, L	1.38	74 M 419	, E	.29	

Type 5001. Dial Plate. For Type N rheostats, above. 5½" diameter. 0-100 scale division. Shpg. wt., 3 oz.

		. NET									
Type	5007	Dial Plat	e. For	Type	E rhe	ostats,	above	right.	11/4"	diam	eter.
		division.									
74 M	344.	NET									.7

"AB" TWO-WATT POTENTIOMETERS



Type CCU Duals

Sealed element, carbon slider for noise-free operation. Size: 15/2'' dia. x 5/6'', except Type CCU, $15/2\times1'16/4''$. 3/6'' hole mtg. to 1/4'' panels. 1/4'' shaft, 2'' long except CLU locking slotted shaft. Linear taper except * clockwise log, † counter-clockwise log. \pm 10% except \pm \pm 20%. 5 oz.

TYPES CA, CB, CU

Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	EACH
28 M 500 28 M 501 28 M 596 28 M 502 28 M 597	CU5001 CU1011 CU1511 CU2511 CU3511	50 100 150 250 350	1.95	28 M 512 28 M 604 28 M 513 28 M 514 28 M 605	CB5031† CU7531 CU1041 CA1041* CU1541	50,000 75,000 100,000 100,000 150,000	2.25 1.95 1.95 2.25 1.95
28 M 503 28 M 598 28 M 504 28 M 599 28 M 505	CU5011 CU7511 CU1021 CU1521 CU2521	500 750 1000 1500 2500	1.95	28 M 515 28 M 516 28 M 606 28 M 517 28 M 518	CU2541 CA2541* CU3541 CU5041 CA5041*	250,000 250,000 350,000 500,000 500,000	1.95 2.25 1.95 1.95 2.25
28 M 600 28 M 506 28 M 601 28 M 507 28 M 508	CU3521 CU5021 CU7521 CU1031 CB1031†	3500 5000 7500 10,000 10,000	1.95 1.95 1.95 1.95 2.25	28 M 607 28 M 519 28 M 520 28 M 608 28 M 548	CU7542 CU1052 CA1052* CU1552 CU2052	750,000‡ 1 Meg‡ 1 Meg‡ 1.5 Meg‡ 2.0 Meg‡	1.95 1.95 2.25 1.95
28 M 602 28 M 509 28 M 510 28 M 603 28 M 511	CU1531 CU2531 CB2531† CU3531 CU5031	15,000 25,000 25,000 35,000 50,000	2.25	28 M 521 28 M 522 28 M 609 28 M 523	CU2552 CA2552* CU3552 CU5052	2.5 Meg‡ 2.5 Meg‡ 3.5 Meg‡ 5 Meg‡	2.25

TYPE CLU-WITH LOCKING SHAFT

28 M 525 CLU5001 28 M 526 CLU1011 28 M 527 CLU2511 28 M 528 CLU5011	50 100 250 500 2 5 5	28 M 534 28 M 535 28 M 536 28 M 537	CLU1041 CLU2541 CLU5041	50,000 .1 Meg .25 Meg .5 Meg
28 M 529 CLU1021 28 M 530 CLU2521 28 M 531 CLU5021 28 M 532 CLU1031 28 M 533 CLU2531	1000 2500 5000 10,000 25,000	28 M 538 28 M 549 28 M 539 28 M 540	CLU2052 CLU2552	1.0 Meg 1 2.0 Meg 1 2.5 Meg 1 5.0 Meg 1

TYPE CCU DUALS

28 M 541 CCU1031 10,000 28 M 542 CCU2531 25,000 28 M 543 CCU5031 50,000 28 M 544 CCU1041 100,000	28 M 545 28 M 546 28 M 547	CCU2541 250,0 CCU5041 500,0 CCU1052 1 Meg	
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28 M 524. CS-1 SPST Switch. For AB pots. 3 oz. NET.........66

TYPE E 121/2-WATT MINIATURE RHEOSTATS

Extremely compact, 12½-watt power rheostats for limited space applications. Rugged, all ceramic and metal construction. Built to operate at maximum hot spot temperature of 340° C. Pivoted, universal-action, metal-graphite contact brushes provide perfect contact. Resistance tolerance is ± 10%. Only ½" in diameter. Require ½" behind panel. Have ½" by 32 threaded bushing ½" long. ½" diameter shaft is ½" long. Less knobs (below, left). Av. shpg. wt., 2 oz.



Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	-
51 M 820	0101	1	4.63	51 M 832	0113	125	4.11
51 M 821	0102	2	4.63	51 M 833	0114	175	
51 M 822	0103	3	4.63	51 M 834	0115	250	
51 M 823	0104	6	4.63	51 M 835	0116	350	
51 M 824	0105	8	4.63	51 M 836	0117	500	4.11
51 M 825	0106	10	4.63	51 M 837	0118	750	4.11
51 M 826	0107	15	4.11	51 M 838	0119	1000	4.63
51 M 827	0108	25	4.11	51 M 839	0120	1500	4.63
51 M 828 51 M 829 51 M 830 51 M 831	0109 0110 0111 0112	35 50 75 100	4.11	51 M 840 51 M 841 51 M 842	0121 0122 0123	2500 3500 5000	4.63 4.90 4.90

TANDEM COUPLING KITS

Kits for assembling Ohmite rheostats in tandem. Each kit consists of a steel "U" frame, mica washer, coupling, Allen wrench and complete instructions.

Type 6533 Tandem Coupling Kit. Large frame designed for Type K or L rheostats. Will accommodate Model H or J in rear position. Maximum panel thickness 1/8". Frame is 21/4" long, 11/4" wide. Wt., 4 oz.

74 M 409. NET

Type 6532 Tandem Coupling Kit. Small frame designed for Type H or J, and will accommodate Type K or L in the rear position. Maximum panel thickness, 5/2". Frame is 25/2" long and 11/4" wide. 5 oz.

74 M 408. NET





New UA universal single control provides snap together, ridged construction for assembling any combination of shaft, control and switch desired—in less than ten seconds without any tools. Order shaft from list below. Choice of SPST, DPST, and SPDT switches. UA controls cover every popular control from 100 ohms to 10 megohms, untapped, tapped and double-tapped, with choice of tapers. Y2-watt sprayed carbon elements fulfill radio, TV and industrial needs. Replaces older style U, UT, UDT, and SU control types. 3/2"-32 bushing with mtg. nut. Less shaft and switch (see below). 2 oz.

LINTA	APPED	(Lace	Shafel
- VIVI		(FC22	

OITIAI LD (Less Sildii)							
Stock No.	Туре	Ohms	Taper	Stock No.	Туре	Ohms	Taper
28 M 000 28 M 001	UA12L UA52L	100 500	4 4	28 M 015 28 M 016	UA54R UA753A	50K 75K	2
28 M 002	UA52R	500	2	28 M 017	UA15A	100K	i
28 M 003	UA751R	750	2 2	28 M 018	UA15L	100K	4
28 M 004	UA13L	1K	4	28 M 019	_UA15R	100K	2
28 M 005	UA13R	1K	2 4	28 M 020	UA1253L	125K	4
28 M 006 28 M 007	UA152L	1500	4	28 M 021	UA154A	150K	1
28 M 008	UA152R UA23L	1500 2K	2	28 M 022	UA25L	200K	4
28 M 009	UA252R	2500	. 2	28 M 023 28 M 024	UA254A UA254L	250K 250K	4
28 M 010	UA33L	3K					
28 M 011	UA33R	3K	4 2 1	28 M 025 28 M 026	UA254R UA55A	250K 500K	2
28 M 012	UA53A	5K	ī	28 M 027	UA55L	500K	4
28 M 013	UA53L	5K		28 M 028	UA754A	750K	i
28 M 014	UA14A	10K	4	28 M 029	UA16A	1 Meg	ī
28 M 030	UA14L	10K	4	28 M 042	UA16L	1 Meg	4
28 M 031	UA14R	10K	2	28 M 043	UA16R	1 Meg	2 4
28 M 032	UA153A	15K	1	28 M 044	UA155L	1.5 Meg	4
28 M 033 28 M 034	UA153R	15K	2	28 M 045	UA26A	2 Meg	1
-	UA24A	20K		28 M 046	UA26L	2 Meg	4
28 M 035	UA24L	20K	4	28 M 047	UA255L	2.5 Meg	4
28 M 036 28 M 037	UA253A UA253L	25K 25K	4	28 M 048	UA36A	3 Meg	1
28 M 038	UA253R	25K	2 -	28 M 049 28 M 050	UA36L UA56A	3 Meg 5 Meg	- 4
28 M 039	UA34L	30K	2 4	28 M 051	UA56L	5 Meg	1 4
28 M 040	UA54A	50K	1				2
28 M 041	UA54L	50K	4	28 M 052 28 M 053	UA56R UA17L	5 Meg 10 Meg	4
	OTTOTIL ,	0011		20 101 023	OUTLE !	TO MIER	- 19

EXPLANATION OF TAPERS

Taper No. 1: For use in audio or antenna shunt circuits.

Taper No. 2: For series circuits or cathode voltage controls.

Taper No. 4: Linear. For voltage control.

TAPPED (Less Shaft)

Stock No.	Туре	Ohms	Тар	Stock No.	Type	Ohms	Tap
28 M 054 28 M 055 28 M 056 28 M 057	UA153T14 UA34T253 UA254T54 UA254T154	15K 30K 250K 250K	10K 25K 50K 150K	28 M 064 28 M 065 28 M 066 28 M 067	UA16T35 UA16T454 UA26T1253 UA26T254	1 Meg 1 Meg 2 Meg 2 Meg	300K 450K 125K 250K
28 M 058 28 M 059 28 M 060	UA354T74 UA55T54 UA55T15	350K 500K 500K	70K 50K 100K	28 M 068 28 M 069 28 M 070	UA26T45 UA26T65 UA26T95	2 Meg	400K
28 M 061 28 M 062 28 M 063	UA55T154 UA55T2253 UA16T25	500K 500K 1 Meg	150K 225K 200K	28 M 071 28 M 072	UA36T95 UA3254T34	2 Meg 3 Meg 3.25 Meg	900K 900K 300K

Stock No.	Туре	Ohms	Tap #1	Tap #2
28 M 073	UA55DT25	500K	100K	200K
28 M 074	UA16DT55	1 Meg	250K	500K
28 M 075	UA155DT55	1.5 Meg	225K	500K
28 M 076	UA2254DT55	2.25 Meg	250K	500K
28 M 077	UA2254DT16	2.25 Meg	500K	1 Meg
28 M 078	UA335DT155	3.3 Meg	300K	1.5 Meg



Shafts for virtually every application. Type SL3500 (Fig. E) universal shaft and Type SL2500 (Fig. D) plain round, are easily cut to shorter lengths. Type SN1000 (Fig. C) provides for insulated TV controls. Type SL2500 meets industrial needs for plain round shafts. Under "Description," figure preceding FMS indicates length from assembled front mounting surface. Av. wt., 2 oz.

Stock No.	Туре	Fig.	Description	Made of:	EACH
28 M 079 28 M 080 28 M 081 28 M 082 28 M 083	SF1000 SK1000 SN1000 SL2500 SL3500	A B C D	4" dia. x 1" FMS (Flatted) 4" dia. x 1" FMS (Knurled) 4" dia. x 1" FMS 4" dia. x 2½" FMS (Plain Round) 4" dia. x 3½" FMS (Universal)	Brass Brass Nylon Aluminum	.39

SWITCHES FOR UA CONTROLS

These switches may be mounted on any of the above controls. Three types are available: US41 (SPST), US42 (DPST), and US43 (SPDT). Switches attach to controls firmly and easily with locking collar included. Can be readily removed in service and replaced without unsoldering control leads on UA controls or vice-versa. Shpg. wt., 2 oz.

STOCK NO.	Mfr's Type	Action	NET EACH
28 M 084 28 M 085 28 M 086	US41 US42 US43	SPST DPST SPDT	.42 .42
			121

"M" AND "MT" WIRE WOUND CONTROLS



For industrial and laboratory use as bias controls and voltage dividers. Also for replacement of positioning, hold, focus and other TV-set controls. 4 watts. Arm insulated from shaft. 294° rotation; Knurled ¼" shaft is ¾" long; has screwdriver slot. "M" shaft is hollow to accept. DS-36 shafts (see below). MT types center-tapped TV units. 1½" dia. x ½". Mount in ½" hole. Linear taper. Shpg. wt., 4 oz.

POTENTIOMETERS

M1PK		EA.	Stock No.	Туре	Ohms	EA.
M3PK M6PK M10PK MT10PK	1 3 6 10	1.35	29 M 413 29 M 431	M 600PK M 1 M PK M 1.5 M PK	500 600 1000 1500 2000	1.35
M15PK M20PK MT20PK M25PK M30PK	20 20 25 30	1.35 1.32 1.35 1.35	29 M 415 29 M 416 29 M 417	M3MPK M4MPK M5MPK	2500 3000 4000 5000 10000	1.35
M40PK M50PK M60PK	40 50 60	1.35	29 M 420 29 M 421	M20MPK M25MPK	15000 20000 25000	1.47
M75PK M100PK M200PK	75 100 200	1.35	29 M 423	M70MPK	50000 70000 75000	1.74
	M10PK MT10PK M15PK M25PK MT20PK M30PK M30PK M40PK M50PK M60PK M75PK	M10PK	M10PK 10 1.32 M110PK 10 1.32 M15PK 15 1.35 M20PK 20 1.35 M30PK 30 1.35 M40PK 40 1.35 M50PK 50 M60PK M100PK M100PK M200PK 200 M200PK 200 M100PK M200PK 200 M15PK M200PK M200P	M10PK	M10PK	M10PK

RHEOSTATS

Have open or off position counter-clockwise

Stock No.	Туре	Ohms	Amps	Stock No.	Туре	Ohms	Amps
29 M 451		1/2	2.80	29 M 459		20	.45
29 M 452 29 M 453		1 2	2.00 1.40	29 M 460		25	.40
29 M 454		- 3		29 M 461 29 M 462		30 40	.37
29 M 455	M4RK	4	1.00	29 M 463		50	.28
29 M 456		6	.82	29 M 464		60	.26
29 M 457 29 M 458		10 15		29 M 465		75	.23
27 W 430	MIJICE	13	.52	29 M 466	MIUURK	100	.20

NET EACH. 29 M 651, Type 395 Dial Plate. For "M" Controls. 2 oz. NET., .21

2-WATT TV CONTROLS



Two-watt wirewound potentiometers designed especially for replacement of television controls. Also excellent for use as voltage dividers and bias controls. Insulated contact arm type, linear taper. Special dual contactor mechanism. 900 volts AC insulation between resistance element and chassis. 297° rotation. Taper 4. 12¾ in diameter. Knurled stub shaft has screwdriver slot. *Center-tapped. ¾ bushing. Shpg. wt., 4 oz.

Stock No	-	Ohms	NET	Stock No.	Туре	Ohms	NET
29 M 838 29 M 837 29 M 838 29 M 838	R20CT* R25L R30L	25 30	1.32 .93 .93	29 M 842 29 M 843 29 M 844 29 M 846 29 M 845	R1500L R2500L R3000L	1000 1500 2500 3000 5000	.93
29 M 840 29 M 864 29 M 841 29 M 834	R100L R250L	50 100 250 500	.93	29 M 692 29 M 693 29 M 694 29 M 695	R10ML R15ML	7500 10,000 15,000 20,000	1.08

NEW TYPE VW WIREWOUND 5-WATT CONTROLS



Miniature 5-watt potentiometers. Very small size for this wattage rating; ideal for limited space applications. Case size only ¾" in diameter by ½" in depth. Bushing: ¾x¾' diameter and length. Has ¼" plain round shaft, 2½" long from mounting surface. Linear taper. Tolerance ±5%. 305° mechanical rotation; pendable operation and stability. Av. shpg. wt., 4 oz.

Stock No.	Туре	Ohms	EA.	Stock No.	Туре	Ohms	EA.
28 M 087		1		28 M 105		300	1.38
28 M 088 28 M 089		. 2	1.38	28 M 106	VW-400 VW-500	400 500	11.38
28 M 090	VW-5	Š	1.38		VW-600	600	1.38
28 M 091		6	1.38	28 M 109	VW-750	750	1.38
28 M 092 28 M 093		8		28 M 110		1K	1.38
28 M 094		10 15	1.38		VW-1P5K VW-2K	1.5K 2K	1.44
28 M 095		20	1.38	28 M I I 3	VW-2P5K		1.44
28 M 096		25		28 M 114	VW-3K	3K	1.44
28 M 097		30 35	1.38		VW-4K	4K	1.44
28 M 099		50	1.38		VW-5K VW-7P5K	5K 7P5K	1.44
28 M 100		60	1.38	28 M 118	VW-10K	10K	1.50
	VW-75	75	1.38		VW-15K	15K	1.56
	VW-100 VW-200	100 200	1.38		VW-20K VW-25K	20K	1.56
	VW-250	250	1.38		V W-25K	25K	1.65

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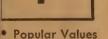
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Assorted Values 1/2-Watt and 1-Watt

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Exact Replacement For 8 Values

Stock up on this dual section electrolytic capacitor. It's an exact replacement for 8 popu-lar standard 150 WVDC types

lar standard 150 WVDC types commonly used in printed circuit home radio receivers. Nominally rated 40 to 80 mfd and 30 to 60 mfd with common negative. Replaces 50-30, 70-30, 75-30, 60-40, 80-40, 50-50, 70-50 and 80-50 mfd, as well as single electrolytics within its voltage rating. Order several of these versatile units now. 2½x1". Shpg. wt., 6 oz. 19 L 415. ONLY

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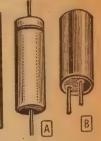
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Regularly, \$3.00, Now you can have a stock of these stable, high-quality disc capacitors at lowest price. Each assortment includes 20 ceramic "Hi-Kaps" ranging from 15 to 5000 mmf in 600 to 1000 WVDC ratings. ½x½z". 1 lb. 58 L 448. Pkg. of 20. ONLY.

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Axial Lead Miniatures, \$5.00 value! Use as cathode bypass and in transistor and other low voltage circuits. American made. Each assortment contains 10 mfd 2 WVDC, 15 mfd 6 10 WVDC, 5 mfd 6 12 WVDC, 5 mfd 6 25 WVDC, 1 mfd 6 50 WVDC plus 5 other 3 to 50 WVDC values. Wt., 12 oz. 99

PLASTIC TUBULAR CAPACITORS

Save 50%

Only Pkg. of 10

1/2-WATT CARBON RESISTOR ASSORTMENT

Only

 Most Popular Values Latest Production Run

Latest production of an American manufacturer of quality resistors. Each kit contains an almost complete inventory of ½-watt, 10% carbon composition resistors in 50 of the most popular and useful values. Includes two of each value: 10, 27, 33, 39, 47, 68, 100, 150, 180, 220, 270, 330, 390, 470, 560, 680, 100, 15K, 18K, 27K, 33K, 39K, 47K, 56K, 68K, 100K, 270K, 330K, 390K, 470K, 560K, 680K, 1 meg, 3.3 meg, 3.9 meg, 4.7 meg, 5.6 meg, 6.8 meg, 10 meg, 15 meg, 18 meg, and 22 meg.

Most other values and wattages can be obtained by adding these values in series or parallel. An outstanding bargain—order several packages now and have a complete supply Shpg. wt., 1 lb. 28 M 554, Pkg. of 100. ONLY....



Solution resistors as above but only 25 different values, two of each. Values are most useful ones: 10, 33, 47, 68, 100, 220, 470, 560, 680, 1000. 2700, 3300, 3900, 4700, 5600, 6800, 1000, 330K, 39K, 470K and 1 meg. Make additional values by putting these in series or parallel. Order this assortment as well as the one above, if you want to maintain a balanced inventory of resistors below 1 megohm. Tolerances are ±10% with ½-watt rating. Shpg. wt., 10 oz.

28 M 555. Pkg. of 50. ONLY.

\$129

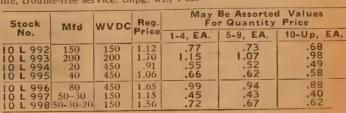
25 Assorted Resistors. Same first-quality carbon composition resistors as above but only 25 different values, one of each value. Values are 10, 33, 47, 68, 100, 220, 470, 560, 680, 1000, 2700, 3300, 3900, 4700, 5600, 6800, 10K, 33K, 39K 47K, 100K, 330K, 390K, 470K, and 1 meg. Make additional values by putting these in series or parallel. 10% tolerance with ½-watt rating. 6 oz. 1.29

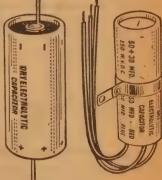
TUBULAR ELECTROLYTIC CAPACITORS IN MOST POPULAR VALUES

Save Up To 60%

May Be Assorted For Lowest Price, Even Greater Savings

First quality American-made tubular electrolytics capacitors at savings that can't be beat. Sorry, the manufacturer will not allow us to mention his name at these prices. Stock up now on single and multiple section types. Single section capacitors have hermetically sealed aluminum can with insulating cardboard sleeve and extra heavy #18 tinned copper leads—3" minimum length. Maximum operating temperature, 185°F. Multiple section capacitors are doubly insulated and wax-filled for moisture resistance. With #22 stranded vinyl-insulated tinned copper leads, 6" minimum length, double-tinned stripped ends. Convenient mounting strap already attached. Maximum operating temperature, 167°F. Both types are conservatively designed for long-life, trouble-free service. Shpg. wt., 4 oz. First quality American-made tubu-







Stock No.

"CERA-MITE" DISC CERAMIC CAPACITORS

Ultra-compact ceramic disc capacitors. In EIA (RETMA) and other popular values. High by-pass efficiency in critical circuits. Moisture-proof coating. Tolerances: 1000 WVDC types ±20%. 3000 WVDC types 1.5 mmf, ±.25 mmf; 4.7 mmf, ±.5 mmf; thru 68 mmf, ±10%; thru 500 mmf, ±20%. All capacitors are "tagged" for easy identification. Sizes range from 1/4" to 1/8". Average shpg. wt., 2 oz.

SERIES 5GA-1000 WVDC

*D	esign	ates	Mfd.	
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Stock No.	Туре	Mmf	Stock No.		Mmf
16 L 300	V50	5	16 L 330	T25	250
16 L 301	V60	6	16 L 331	T27	270
16 L 302	V75	7.5	16 L 332	T30	300
16 L 303	V80	8	16 L 333	T33	330
16 L 304	Q10	10	16 L 334	T35	350
16 L 305	O12	12	16 L 335	T36	360
16 L 306	O15	15	16 L 336	T39	390
16 L 307	O18	18	16 L 337	T40	400
16 L 308	O20	20	16 L 338	T47	470
16 L 309	O22	22	16 L 339	T50	500
16 L 310	O25	25	16 L 340	T56	560
16 L 311	O27	27	16 L 341	T60	600
16 L 312	O30	30	16 L 342	T68	680
16 L 313	O33	33	16 L 343	T75	750
16 L 314	O39	39	16 L 344	T80	800
16 L 315	Q47	47	16 L 345	T82	820
16 L 316	Q50	50	15 L 670	D10	.001*
16 L 317	Q56	56	16 L 347	D12	.0012*
16 L 318	Q68	68	16 L 348	D13	.0013*
16 L 319	Q75	75	15 L 671	D15	.0015*
16 L 320	O82	82	16 L 350	D16	.0016*
16 L 321	O91	91	16 L 351	D18	.0018*
16 L 322	T10	100	16 L 352	D20	.0020*
16 L 323	T12	120	16 L 353	D22	.0022*
16 L 324	T13	130	16 L 354	D25	.0025*
16 L 325	T15	150	16 L 355	D27	.0027*
16 L 326	T18	180	16 L 356	D30	.0030*
16 L 327	T20	200	16 L 357	D33	.0033*
16 L 328	T22	220	16 L 358	D39	.0039*
16 L 329	T24	240	16 L 359	D40	.0040*
NET EAC	ЭН		Taran Santa	1, .	15

SERIES 30GA-3000 WVDC

Mfd

.0043 .0047 .005

EACH

.18

N

Туре

Stock No.	Typa	Mmf	Stock No.	Type	Mmf
16 L 387	V15	1.5	16 L 377	T10	100
16 L 370	V47	4.7	16 L 378	T12	120
16 L 371	Q10	. 10	16 L 379	T15	150
16 L 372	Q15	15	16 L 380	T18	180
16 L 373	Q25	25	16 L 381	T20	200
16 L 374	Q30	30	16 L 382	T22	220
16 L 389	Q39	39	16 L 383	T25	250
16 L 375	Q50	50	16 L 384	T27	270
16 L 390	Q60	60	16 L 385	T30	300
16 L 376	Q68	68	116 L 386	T50	500

NET EACH SINGLE AND DUAL HIGH-K TYPES

SERIES 5HK-500 AND 1000 WVDC

Stock No.	Type	- Mfd .	WVDC	NET
15 L 672	D20	002	1000	.15
15 L 673	D50	.005	1000	.15
15 L 674	S10	.010	500	.18
19 L 950	S20	.02	500	.36
19 L 951	S30	.03	500	.39
19 L 952	S40	.04	. 500	.42
19 L 953	S50	.05	500	.42
19 L 954	P10	.1	500	.96
15 L 675	2D10	2x.001	1000	.24
15 L 676	2D15	2x.0015	1000	.24
15 L 677	2D20	2x.002	1000	.24
15 L 678	2D40	2x.004	1000	.27

DOORKNOB CAPACITORS



High-voltage, 500-mmf plastic capacitors for replacement use in all types of TV sets. Moisture-resistant, thermosetting molded plastic. Molded guard rings increase surface leakage path. Capacitor body has threaded ends for variety of screw-in terminals. 20DK-T5's supplied with 14 terminals (2 of each type shown). Type 30DK-T5 with only 2 terminals indicated by *. Shpg. wt., 4 oz.

		Dia. x Length	NET
15 L 599 15 L 597		1x ³ 1/ ₃₂ " 1 ⁵ / ₁₆ x1 ¹ / ₄ "	2.22/pr. 1.76/ea.

"TC" CALCULATOR

SERIES 10TCC NPO CERAMICS

Zero temperature-coefficient capacitors, 1000 WVDC. All capacitors listed below are of the disc type. Av. shpg. wt., 2 oz.

Stock No.	Type	Mmf	Stock No.	Type	Mm
19 L 955 19 L 956 19 L 957 19 L 958 19 L 960	V10 V15 V22 V33 V47 V68	1.5 2.2 3.3 4.7	19 L 961 19 L 962 19 L 963 19 L 964 19 L 965	Q10 Q15 Q20 Q22 Q25 Q33	10.0 15.0 20.0 22.0 25.0 33.0

NET	EACH	• • • • • • • • • • • • • • • • • • • •	30

Stock No.	Туре	Mmf	EACH
19 L 967	Q39	39.0	.33
19 L 968	Q47 Q50	47.0 50.0	.33 .33
19 L 970 19 L 971	Q68 075	68.0 75.0	.33
19 L 972	T10	100.0	:33
19 L 973	T12	120.0	.36
19 L 974	T15	150.0	.36
19 L 975 19 L 976	T175 T22	175.0 220.0	.30
19 6 977	T27	270.0	.42

SERIES 10TCU N750 CERAMICS

A negative temperature coefficient capacitor with a negative change of 750 parts per million per degree Centigrade. 1000 WVDC. All capacitors listed below are disc type except *rectangular. Av. shpg. wt., 2 oz.

Stock No.	Туре	Mmf	Stock No.	Туре	Mmf
19 L 978 19 L 979 19 L 980 19 L 981 19 L 982 19 L 983 19 L 984	V50* Q10 Q15 Q20 Q22 Q25 Q33 Q47	10 15 20 22 25	19 L 986 19 L 987 19 L 988 19 L 989 19 L 990 19 L 991 19 L 992	Q68 Q75 T10 T15 T20 T22 T33	68 75 100 150 200 220 330

-	FAOIL			
E.	EACH	 	 	

.30

Stock No.	Туре	Mfd	EACH
19 L 993	T47 T68	470 680	.42

SERIES BL BUFFER CERAMICS

2000 WVDC disc ceramic type capacitors for buffer applications. Tiny, rugged construction. Moisture-proof coating assures high dependability. Perfect for use in highly compact equipment. Tolerance, \$\pm\$20%. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	Stock No.	Mfr's Type	Mfd
16 L 290 16 L 291 16 L 292 16 L 293 16 L 294	BL-D20 BL-D30 BL-D40	.002 .003 .004	16L 295 16L 296 16L 297 16L 298 16L 299	BL-D70 BL-D75 BL-D80	.006 .007 .0075 .008

NET EACH

SPRAGUE UHK-1 2 3 4

UNIVERSAL CERAMICS

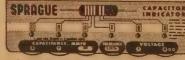
Offers large variety of ratings. Includes complete instructions. *Guaranteed minimum value; † have tolerance of ±20%. Rated at 500 WVDC. Av. shpg. wt., 3 oz.

Stock	Mfr's	Capacity	Size	NET
No.	Type	Range, Mfd		EACH
	*UHK-2 †UGA-1			.30 .36 .30

CERAMIC CAPACITOR KIT

CK-4. Handles 90% of all ceramic, molded tubular, and mica replacements. 3 each: UHK-1, UHK-2, UGA-1 and UGA-2. With instructions. 3½xx8½". Wt., 3 oz. 3.96

CAPACITOR INDICATOR



TEMPERATURE-STABLE CERAMICS



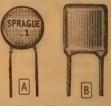
These dependable ceramics are excellent for use wherever minimum capacitance change, with variation in temperature, is an important tight spaces. Standard capacitance tolerance, ± 10%. Rated at 1000 working volts, DC. Diameter ranges in size from 1%. It o 1%". Largest thickness, 5/2." Maximum continuous operating temperature, ± 85° C. *Rated in mfd. Av. shpg. wt., 2 oz.

Stock No. Type Mmf | Stock No. Type | Mmf

Stock No.	Type Mmf	Stock No.	Type	Mmf
28 L 900	V33 3.3	28 L 920	T24	240
28 L 901	V50 5	28 L 921	T25	250
28 L 902	V60 6	28 L 922	T27	270
28 L 903	V68 6.8	28 L 923	T30	300
28 L 904	V75 7.5	28 L 924	T33	330
28 L 905	V80 8	28 L 925	T35	350
28 L 906	Q10 10	28 L 926	T36	360
28 L 907	Q12 12	28 L 927	T39	390
28 L 908	Q15 15	28 L 928	T40	400
28 L 909	Q18 18	28 L 929	T47	470
28 L 910	Q20 20	28 L 930	T50	500
28 L 911	Q22 22	28 L 931	T56	560
28 L 912	Q25 25	28 L 932	T60	600
28 L 913	Q27 27	28 L 933	T68	680
28 L 914	Q30 30	28 L 934	T75	750
28 L 915	Q33 33	28 L 935	T80	800
28 L 916	Q39 39	28 L 936	T82	820
28 L 917	Q47 47	28 L 937	D10	.001*
28 L 918	Q50 50	28 L 938	D12	.0012*
28 L 919	Q56 56	28 L 939	D13	.0013*
28 L 940	Q68 68	28 L 951	D15	.0015*
28 L 941	Q75 75	28 L 952	D16	.0016*
28 L 942	Q82 82	28 L 953	D18	.0018*
28 L 943	Q91 91	28 L 954	D20	.002*
28 L 944	T10 100	28 L 955	D22	.0022*
28 L 945 28 L 946 28 L 947 28 L 948 28 L 949 28 L 950	T12 120 T13 130 T15 150 T18 180 T20 200 T22 220	28 L 956 28 L 957 28 L 958 28 L 959 28 L 960 28 L 961	D25 D27 D30 D33 D39 D40	.0025* .0027* .003* .0033* .0039*
NET FAC				15

NET	EACH					15
28 L	963 D4 964 D5	3 .0043* 2 7 .0047* 2 0 .005* 2 6 .0056* 2	28 L	968	S10 S15	.01*

CERAMIC CAPACITORS FOR TRANSISTORIZED CIRCUITS



Especially designed for circuits requiring extremely small components. Ideal for printed circuits, transistor-type radios, etc. Provide very dependable service in bypass and coupling applications. Have excellent humidity resistance.

Type TG. Have heavy, protective coating All are rated at 50 working volts, DC. Have tolerance of +80% to -20% except S25, which is +80% to -30%.

Stock No.	Туре	Mfd	Dia.	Wt.	NET
15 L 995	D50	.005	5/16"	2 oz.	.27
15 L 996	S10	.01	3/8"	3 oz.	.39
15 L 997	S25	.025	19/2"	3 oz.	.39
15 L 998	S50	.05	44"	3 oz.	.42
15 L 999	P10	.1	%"	4 OZ.	.54

Monolythic Type. Solid homogenous block construction assures excellent humidity resistance. Rated 25 working volts, DC. Temperature rating, -55° C to +85° C. Tolerance, ±20%. Size, ½x½x½x½. Shpg. wt.,

Stock No.	Туре	Mfd	NET
16 L 698	5C9	.22	1.06
16 L 699	5C10	.33	1.20
16 L 825	5C11	.47	1.38
16 L 823	5C12	.68	1.48
16 L 824	5C13	1.0	1.96

Hypercon Type. Highly dependable, ultraminiature ceramic discs. Superior to electrolytic capacitors of similar capacitance values, due to very low power factor. Tolerance, guaranteed minimum value. All are rated 3 working volts, DC. Shpg. wt., 2 oz.

Stock No.	Туре	Mfd	Dia.	NET
16 L 671	HY-120 HY-125	.1	.225"	.54
16 L 673	HY-130	.47	.400"	.33
16 L 674	HY-135 HY-150	1.0	.595"	.45

Sprague Capacitors

"ORANGE DROP" CAPACITORS "MYLAR"-PAPER

Extremely small tubular capacitors. Dual dielectric windings, rock hard case, radial leads. Exact replacements in Double-dipped in orange epoxy resin to guard against heat and moisture. ±10%. Wt., 2 oz.

against hea	at and mo	isture	:. = 11	U%. Wt., 2	
Stock No.	Type	Mfd	WVDC	Size	EACH
28 L 700	2PS-S20	.02	200	3/8 x 7/8 "	. 5
28 L 826	2PS-S22 2PS-S47	.022	200	25/64 X 7/8" 29/64 X 7/8"	.15
28 L 701	2PS-S50	.05	200	1 5/32 X 1/8"	.15
28 L 701 28 L 702 28 L 703	2PS-P10	.1	200	3 1/64 X 1 3/16"	.21_
	2PS-P20	.2	200	19/32 X1 5/16"	.24
28 L 704	2PS-P25	.25	200	5/8 x1 5/16" 4 5/64 x1 5/8"	.24
17 L 912 28 L 705	2PS-P47 2PS-P50	.47	200	2 3/32 x15/8"	.36
28 L 705 28 L 706	4PS-S10	.01	400	1 3/32 X 1 1/16"	.15
	4PS-S15	.015	400	29/64 X 1 1/16"	.15
28 L 707	4PS-S20	.02	400 400	1 3/32 x 1/8" 2 9/64 x 1/8"	1 10
28 L 708 28 L 709	4PS-S30 4PS-S47	.03	400	29/64 x1 3/16"	.18
28 L 824 28 L 707 28 L 708 28 L 709 28 L 710	4PS-S50	.05	400	29/64 X1 3/16"	.18
	4PS-S68	.068	400	3 3/64 X 1 3/16"	.21
17 L 911	4PS-P10	.1	400	3 1/64 X1 3/16" 3 9/64 X1 5/16"	.21
28 L 823 28 L 7 I 2	4PS-P15 4PS-P20	.15	400	19/22 x 15/8"	:27
28 L 711 28 L 823 28 L 712 28 L 713	4PS-P22	.22	400	3 9/64 X 1 5/8"	.27
28 L 714	4PS-P25	.25	400	4 1/64 X 1 5/8"	.30
28 L 7 I 5	6PS-D10	.001	600 600	21/64 X 1 1/16" 21/64 X 1 1/16"	.15
28 L 716 28 L 717	6PS-D15 6PS-D20	.0015	600	21/04 × 11/10	.15
28 L 717	6PS-D22	.0022	600	2 1/64 X 1 1/16"	.15
	6PS-D30	.003	600	1 1/32 X 1 1/16"	
171 9 4	6PS-D33	.0033	600	. ~ 1/64 X ~ 1/16	15
28 L 720 28 L 721	6PS-D40 6PS-D47	.004	600	3/8 X 1 1/16" 25/64 X 1 1/16"	.15
28 L 720 28 L 721 28 L 722	6PS-D50	.005	600	25/64 X 1 1/16"	
28 L 723	6PS-D60	.006	600	1 3/32 X 1 1/16"	.15
28 L 724 17 L 900	6PS-D68	.0068	600	1 3/32 X 1 1/16" 1 3/32 X 1 1/16" 2 3/64 X 7/8"	.18
17 L 900 28 L 83 I	6PS-D75 6PS-D80	.0075	600	23/64 X 7/8 "	1.18
28 L 725	6PS-S10	.01	600	25/64 X 1/8"	18
28 L 726	6PS-S15	.015	600	2 7/64 X 7/8"	1.18
28 L 727 28 L 728	6PS-S20 6PS-S22	.02	600	3 1/64 X 7/8 " 3 1/64 X 7/8 "	1.18
17 L 901	6PS-S25	.025	600	1 7/32 X 1/8"	.21
28 L 729	6PS-S30	.03	600	17/32 X 7/8" 7/16 X 1 3/16"	
171 903	6PS-S35	.035	600	15/32 X 1 3/16"	.21
28 L 730 28 L 731	6PS-S40 6PS-S47	.04 .047	600	1/2 X1 3/16" 17/32 X1 3/16"	1.24
28 L 731 28 L 732	6PS-S50	.05	600	17/32 X 1 3/16"	.24
17 L 904	6PS-S56	.056	600	3 5/64 X 1 3/16"	
28 L 829	6PS-S60	.06	600	9/16 X1 3/16" 3 7/64 X1 3/16"	.24
17 L 905	6PS-S68 6PS-S75	.068	600	9/16 X 1 5/16"	27
28 L 830	6PS-S82	.082	600	37/64 X 1 5/16"	.27
28 L 830 28 L 733	6PS-P10	.1	600	5/8 x 1 5/16"	.27
17 L 913 28 L 734 17 L 908	6PS-P15	.15	600	43/64×15/8" 3/4×15/8"	.30
17 L 913 28 L 734 17 L 908	6PS-P20 6PS-P22	.2	600	25/32 X 15/8"	.42
28 L 735	6PS-P25	.22	600	1 3/16 X 15/8"	.42 .45 .30
28 L 7 36	10PS-D10	.001	1000	2 1/64 X 1 1/16	.30
28 L 828 28 L 737 28 L 827	10PS-D15	.0015	1000	1 1/32 X 1 1/16 3/8 X 1 1/16	,
28 L 828 28 L 737 28 L 827 28 L 738	10PS-D20 10PS-D22	.002		3/8 X 1 1/16	-1.30
28 L 827 28 L 738	10PS-D30	.003	1000	1 1/32 X 7/8"	
171 909	10PS-D40	.004	1000	3/8 x 7/8"	

"BLACK BEAUTY"-"MYLAR" PAPER TELECAPS

Hi-temp molded plastic cased tubulars. Highly resistant to heat and moisture; ruggedly built; completely insulated, Features special "DLFILM" ("Mylar" paper) type dielectric. 200 to 1000 v. types operate to 105° C; 1600 v. and up types, operate to 85° C. 1600-6000 v. types are oil impregnated. All are ±10% tolerance. Av. shpg. wt., 3 oz.



200 VOLTS I	DC W	ORK	ING
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Size	EACH
	.15
	.15
	.15
	.21
1/2 X 1 1/2"	:21
	-
	.24
78 X1 78 3/4 × 2 1/4"	.36
	.36
	.63
	Size 3/8 x1 1/4" 3/8 x1 1/4" 4/6 x1 1/4" 4/6 x1 1/4" 4/2 x1 1/2" 5/8 x1 7/8" 5/8 x1 7/8" 3/4 x2 1/4" 3/4 x2 1/4"

400 VOLTS DC WORKING

Stock No.	Туре	Mfd	Size	EA.
	4TM-S15 4TM-S20 4TM-S22	.01 .015 .02 .022 .025	3/8 x 1 1/4" 3/8 x 1 1/4" 3/8 x 1 1/4" 3/8 x 1 1/4" 7/16 x 1 1/4"	.15
15 L 004 15 L 014 15 L 127	4TM-S30 4TM-S40 4TM-S47 4TM-S50 4TM-S68	.03 .04 .047 .05 .068	7/16×1 1/4" 7/16×1 1/4" 7/16×1 1/4" 1/2×1 1/2" 1/2×1 1/2"	.18
15 L 011	4TM-P10 4TM-P15 4TM-P20 4TM-P22 4TM-P25	.1 .15 .2 .22 .22	1/2x1 1/2" 5/8x1 7/8" 5/8x1 7/8" 5/8x1 7/8" 3/4x2 1/4"	.21 .24 .27 .27
15 L 010	4TM-P47 4TM-P50 4TM-M1	.47 .5 1.0	3/4×2 ¹ /4" 3/4×2 ¹ /4" 1×2 ¹ /2"	.45 .44 .75

600 VOLTS DC WORKING										
Stock	Type	Mfd	Size	EA.						
16 L 250 16 L 251 16 L 252 16 L 253 15 L 070	6TM-T10 6TM-T25 6TM-T40 6TM-T50 6TM-D10	.0001 .00025 .0004 .0005 .001	5/16x1"	.15						
15 L 084 15 L 071 15 L 092 15 L 072 15 L 522	6TM-D15 6TM-D20 6TM-D22 6TM-D30 6TM-D33	.0015 .002 .0022 .003 .0033	5/16×1°	.15						
15 L 073 15 L 093 15 L 074 15 L 075	6TM-D40 6TM-D47 6TM-D50 6TM-D60	.004 .0047 .005 .006	3/8×11/4"	.15						
16 L 254 15 L 523 15 L 076 15 L 094 15 L 077 16 L 255	6TM-D68 6TM-D80 6TM-S10 6TM-S15 6TM-S20 6TM-S22	.0068 .008 .01 .015 .02 .022	3/8 x 1 1/4" 3/8 x 1 1/4" 3/8 x 1 1/4" 3/8 x 1 1/4" 7/16 x 1 1/4" 7/16 x 1 1/4"	.18						
15 L 078 15 L 526 15 L 006 15 L 079 15 L 098	6TM-S33 6TM-S35 6TM-S40	.03 .033 .035 .04 .047	7/16 x 1 1/4" 7/16 x 1 1/4" 7/16 x 1 1/4" 1/2 x 1 1/2" 1/2 x 1 1/2"	.21 .21 .21 .21 .24						
15 L 080 15 L 081 15 L 007	6TM-S60	.05 .06 .068	1/2 x1 1/2" 1/2 x1 1/2" 1/2 x1 1/2"	.24 .27						

600 VOLTS DC WORKING (Cont'd)

Stock No.	Type '	Mfd	Size	EACH
15 L 082	6TM-P10	.1	5/8×17/8"	.27
15 L 524	6TM-P15	.15	5/8×17/8"	.30
15 L 008	6TM-P22	.22	3/4×21/4"	.42
15 L 525	6TM-P20	.2	3/4×21/4"	.39
15 L 083	6TM-P25	.25	3/4×21/4"	.45
15 L 016	6TM-P47	.47	1x2½"	.75
16 L 260		1.5	$1 \times 2 \frac{1}{2}$ $1 \times 2 \frac{1}{2}$	1.05
16 L 261	6TM-M1	1.0	1 X Z 1/2	11.05

1000 VOLTS DC WORKING

	10TM-T50	.0005	5/16X1"	
		.001	5/16×1"	.30
	10TM-D15	.0015	5/16×1"	.50
15 L 931	10TM-D20	.002	3/8×11/4"	
15 L 932	10TM-D22	.0022	3/8×1 1/4"	
15 L 933	10TM-D30	.003	3/8×11/4"	
15 L 017	10TM-D40	.004	3/8×1 1/4"	.30
15 L 018	10TM-D47	.0047	3/8×1 1/4"	.50
15 L 936	10TM-D50	.005	3/8×11/4"	
15 L 937	10TM-D68	.0068	3/8×11/4"	
15 L 938	10TM-S10	.01	7/16×11/4"	
15 L 939	10TM-S15	.015	1/2 x1 1/2" 1/2 x1 1/2"	
	10TM-S20	.02	1/2 x 1 1/2"	.30
15 L 941	10TM-S22	.022	1/2 x 1 1/2"	
15 L 942	10TM-S30	.03	5/8 x 1 7/8"	
15 L 943	10TM-S35	.035	5/8×17/8"	.30
15 L 944		.047	5/8 x 1 7/8"	.36
	10TM-S50	.05	5/8×17/8"	.36
	10TM-S68	.068	5/8×17/8"	.42
15 L 947	10TM-P10	.1.	1 3/4×21/4"	.45

1600 VOLTS DC WORKING

16 L 270	MB-T5	.0005	3/8 x 1 1/4"	.39
15 L 019	MB-D1	.001	3/8 x 1 1/4"	
16 L 271	MB-D15	.0015	3/8 x 1 1/4"	
15 L 158	MB-D2	.002	3/8 x 1 1/4"	
16 L 272	MB-D22	.0022	3/8 x 1 1/4"	
15 L 159	MB-D3	.003	7/6×1 1/4"	.39
16 L 273	MB-D33	.0033	7/6×1 1/4"	
15 L 160	MB-D4	.004	7/6×1 1/4"	
16 L 274	MB-D47	.0047	7/6×1 1/4"	
15 L 161	MB-D5	.005	7/6×1 1/4"	
15 L 162 16 L 275 15 L 163 15 L 164 15 L 165	MB-D6 MB-D68 MB-D7 MB-D75 MB-D8	.006 .0068 .007 .0075 .008	½x1½" ½x1½"	.39
15 L 166	MB-S15	.01	1/2 x1 1/2"	.42
15 L 167	MB-S15	.015	5/8 x1 7/8"	
15 L 168	MB-S2	.02	5/8 x1 7/8"	
15 L 024	MB-S22	.022	5/8 x1 7/8"	
16 L 277	MB-S3	.03	5/8 x1 7/8"	
16 L 278 16 L 280	M B-S4 TR-15	.04	5/8 x1 7/8" 3/4 x2 1/8"	.42

6000 VOLTS DC WORKING

15 L 853 i	is rated at	10,000	DC WKg.	VOIES
Stock No.	Туре	Mfd	Size	EA.
15 L 851 15 L 852	TVM-356 TVM-216 TVM-256 TVM-351	.0005 .001 .005 .0005	½x1½" ½x1½" ½x1½" 5/8x1¾" 5/8x1¾"	.81

S MFD

An extensive selection of ultra-small 30D series electrolytics. Excellent for use in transistor radios, transistor circuits in hearing aids, pocket tape recorders, wireless microphones, and other miniature electronic equipment. Hermetically sealed, aluminum enclosed. All welded consider the control of the

1 3/₃₂ X ⁷/₈ " 1 3/₃₂ X ⁷/₈ "

.0047 1000 .005 1000

28 L 739 10PS-D47 28 L 740 10PS-D50

struction—no pressure joints to cause open or intermittent circuits. Extremely low leakage current and long shelf life. Withstand temperatures up to 185°F. Size given in table below is diameter x length. Av. shpg. wt., 1 oz.

equipment.	Herme	tically	sealed,	alumin	um enci	losed. All w	eided co	11	Dize gr		NET	Stock	Туре		1		NET
Stock No.	Type	Mfd	WVDC	Size	NET EA.	Stock No.	Type TE-	Mfd	WVDC	Size	NET EA.	No.	TÉ-	Mfd	WVDC		EA.
1 L 736 16 L 028 1 L 746 1 L 747	1051 1055 1057 1058	2 25 40 50	3 3 3	1/4 x 1 1/16" 1/4 x 1 1/16" 1/4 x 1 1/16" 5/16 x 1 1/16"	.75 .75 .75	16 L 043 16 L 621 16 L 622 16 L 623	1118 1119 1119.3 1119.6	25 50 100 200	10 10	1/4 x 1 1/16" 3/8 x 1 1/16" 3/8 x 1 3/16" 3/8 x 1 1/4"	.81 .90 1.02 1.20	L 779 L 780 6 L 048 6 L 049 16 L 636	1200 1201 1204 1205 1206	10 10 15 20	25 25 25	1/4 x 1 1/16" 1/4 x 1 1/16" 1/4 x 1 1/16" 5/16 x 1 1/16" 3/8 x 1 1/16"	.75 .87 .87
16 L 654 16 L 656 16 L 658	1059.5 1064 1066 1068 1080	200 300 500	3	1/4 x 1 1/16" 3/8 x 1 3/16" 3/8 x 1 5/16" 3/8 x 1 1/2" 1/4 x 1 1/16"	.84 .90 .99 1.05	16 L 044 16 L 045 11 L 767 11 L 769	1127 1128 1133 1135 1136	10 50 100 150	12	1/4x ¹ / ₁₆ " 1/4x ¹ / ₁₆ " 3/8x ¹ / ₁₆ " 3/8x ³ / ₁₆ " 3/8x ¹ / ₄ "	.81 .93 1.05	16 L 637 16 L 638 16 L 639 16 L 641 16 L 642	1207 1208 1209 1211 1301	25 35 50 100	25 25 25	3/8 x 1 1/16" 3/8 x 1 3/16" 3/8 x 1 5/16" 3/8 x 1 1/2" 1/4 x 1 1/16"	.93 .99 1.08 1.26
16 L 031 16 L 032 16 L 033 16 L 034 11 L 750	1081 1082 1083 1084 1085	3 4 5 6 10	6 6 6 6	1/4 x1 1/16" 1/4 x1 1/16" 1/4 x1 1/16" 1/4 x1 1/16" 1/4 x1 1/16" 1/4 x1 1/16"	.75 .75 .75 .75 .75	11 L 771 11 L 772 11 L 773 11 L 776 16 L 624	1137 1138 1148 1151 1152 1153	250 250 1 . 4 . 5 . 6		3/8 x 1 1/4" 3/8 x 1 1/2" 1/4 x 1 1/16" 1/4 x 1 1/16" 1/4 x 1 1/16" 1/4 x 1 1/16"	1.23 1.32 .75 .78 .82 .84	16 L 642 16 L 643 11 L 786 11 L 789 16 L 644	1302.1 1303.1 1303.3 1304 1305	4 5 8 10 20	50 50 50 50 50 50	1/4 x 1 1/16" 1/4 x 1 1/16" 5/16 x 1 1/16" 5/16 x 1 1/16" 3/8 x 1 3/16"	.81 .87 .90 .90
16 L 036 16 L 037 16 L 038 16 L 039 16 L 041 16 L 026	1087 1089 1091 1092 1100 1101	15 25 30 50 60	6 6 6 6	1/4 x 1 1/16" 1/4 x 1 1/16" 1/4 x 1 1/16" 5/16 x 1 1/16" 5/16 x 1 1/16"	.81 .81 .84 .84	16 L 625 16 L 626 16 L 628 16 L 629 16 L 631	1155 1156 1157.1 1158 1160	10 15 25 30 50	15 15 15 15 15	1/4 x 1 1/16" 1/4 x 1 1/16" 5/16 x 1 1/16" 5/16 x 1 1/16" 3/8 x 1 1/16"	.84 .87 .90 .96	16 L 662 16 L 645 16 L 647 16 L 649 11 L 798	1306 1307 1407 1409 1501	35 50 10 20 20	50 100 100 150	3/8 x 1 1/4" 3/8 x 1 1/2" 3/8 x 1 5/16" 3/8 x 1 5/16" 3/8 x 1 5/16" 3/8 x 1 5/16"	1.02 1.11 .93 .96 .87
L 753 L 754 L 66	1102 1103 1106	100 150 300	6 6 6	3/8 x 1 1/16 1/3/8 x 1 1/2 1/4 x 1 1/2	.90 .94 .1,08	16 L 633 16 L 634 16 L 635 16 L 046	1164	100 150 200 5	15 15 15 25	3/8 x 1 5/16" 3/8 x 1 1/4" 3/8 x 1 1/2" 1/4 x 1 1/16"	1.08	11 L 799 16 L 651 11 L 801 16 L 652	1503 1504 1506 1507	5 8 10	150 150	3/8 x 1 1/4" 3/8 x 1 1/4"	.93

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TVA AND TU ATOMS—MIDGET ELECTROLYTICS

Very compact dry electrolytics. All are metal-cased except, teardboard construction. Engineered especially for replacements in tough TV applications—such as power supplies, decoupling circuits, cathode bypass circuits, etc. Will withstand the high surge voltages and high ripple currents commonly found in television circuits. Very low leakage. Operate efficiently at temperatures as high as 85°C.* TU type; separate negative leads.

SINGLE SECTION

Stock	TVA	8864	MV		ALEXE.
No.	Туре	Mfd	DC	Size	NET
15 L 981	1100	50	6	3/8×1 1/4"	.57 .72 .81
16 L 230	1101	100	6	1/2x1 1/8" 5/8x17/16"	.72
16 L 230 16 L 231 16 L 232	1102 1103	250 500	6	3/8 x 1 1/16" 5/8 x 23/16"	.81
16 L 233	1105	1500	6	13/16x211/16"	1.26
American Company		THE PERSON NAMED IN			
15 L 861 16 L 234	1106 1130	2000	6	13/ ₁₆ x2 ¹⁵ / ₁₆ "	1.38 .72 .87
15 L 862	1131	250	12	9/16×13/16" 5/8×111/16"	87
15 L 862 15 L 863	1132	500	12	3/4 x 111/16"	1.02
16 L 235	1133	1000	12	13/16 x 23/16"	11.35
16 L 236	1160	100	15	5/8 x 1 3/16"	.75 .93 1.05
	1161	250	15	5/8 x 111/16" 11/16 x 23/16"	.93
16 L 237 16 L 238 16 L 239	1162	500	15	11/16x23/16"	1.05
16 L 239	1163	1000	15 25	7/8×23/16"	
15 L 207	1203	5		3/8×1 1/4"	.60
15 L 205 15 L 206 15 L 208	1204	10	25	3/8×1 1/4" 3/8×1 1/4"	.60
15 L 206	1205	25	25	3/8×1 1/4"	.60
15 L 208	1206 1207	50 100	25 25	9/16×13/16" 9/16×111/16"	.81
15 L 868	1208	250	25	3/4×111/16"	1.02
15 L 869	1209	500	25	7/8 x 23/16"	1.38
	1300	1	50	3/8×1 1/4"	.54
15 L 870 15 L 871 15 L 200 15 L 201	1301	1 2 5	50	3/8 x 1 1/4"	.54 .54 .60
15 L 200 15 L 201	1303	. 5	50	3/8 x 1 1/4"	.60
	1304	10	50	3/8 x 1 1/4"	.60
15 L 202 15 L 203	1306	. 25	50	7/16×13/8"	.63 .72
15 L 203 15 L 876	1308 1310	50 100	50 50	9/16X 111/16"	./2
12 - 0/0	1010	100	30	3/4 x 111/16"	.84

A										
Stock	TVA	20.0	WV	1 7 7 1						
No.	Type	Mfd	DC	Size	NET					
15 L 858	1311	150	50	3/4×111/16"	.93					
15 L 859	1312	250	50	15/16×111/16"	1.05					
15 L 192	1402	, 4	150	3/8×1 1/4"	.60					
16 L 241	1403	5	150	3/8 x 1 1/4"	.60					
15 L 193	1405	. 8	150	3/8×13/4"	.63					
15 L 226	1406	10	150	3/8×13/4"	.63					
15 L 194 15 L 195	1407	12	150	1/2 x 1 5/8"	.66					
15 L 195	1409	16	150	9/16×111/16"	.69					
15 L 196 16 L 242	1410	20 25	150	5/16X111/16"	.72					
	1411	-	150	5/8×111/16"	.75					
15 L 197	1412	30	150	5/8×111/16"	.78					
15 L 198	1413	40	150	3/4×111/16" 13/16×111/16"	.81					
15 L 199 16 L 243	1414 1415	50	150	7/16X1 /16"	.84					
15 L 878	1418	80	150 150	7/8×111/16" 7/8×115/16"	.96					
16 L 619	1420	. 100	150	7/8×23/16"	1.05					
16 L 240 16 L 244	1422 1423†	150	150 150	1x23/16" 1x313/16"	1.14					
16 L 245	1425†	300	150	13/8×37/8"	1.53					
16 L 246	1480	200	200	13/8×33/8"	1.74					
15 L 185	1501	4	250	7/16×15/8"	.60					
15 L 186	1503	8	250	1/2×15/8"	.69					
16 L 617	1504	10	250	9/16×111/16"	.72					
15 L 187	1505	. 12	250	9/16×111/16"	.75					
15 L 188	1507	16	250	5/ax111/16"	.75 .78					
15 L 189	1508	20	250	11 16X1 11/16"	.81					
16 L 618	1510	30	250	11/16x23/16"	.87					
15 L 190	1511	40	250	3/4×23/16"	.93					

Stock	TVA		WV	1	
No.	Туре	Mfd	DC	Size	NET
16 L 247	1575†	140	300	13/8x33/8"	1.89
16 L 616	1601	. 4	350	1/2×15/8"	.63
15 L 181 15 L 184 15 L 983	1603	8	350	5/8×111/16"	.72
15 L 184	1608	20	350	13/16×111/16"	.87
15 L 983	1611	40 '	350	7/8×27/16"	1.05
15 L 984	1613	60	350	1 x 27/16"	1.17
16 L 615	1701	2	450	7/16x15/8"	.66
15 L 170	1702	4	450	%6x111/16"	.69
15 L 17 L	1704	. 8	450	11/16×111/16"	.75
15 L 225	1705	10	450	11/16×111/16"	.78
15 L 172	1706	12	450	3/4×111/16"	.81
15 L 173	1708	16	450	3/4 x 23/16"	.87
15 L 174 15 L 169	1709	20	450	3/4 x 23/16"	.93
15 L 169	1711	30	450	7/8 x 23/16"	1.02
15 L 178	1712	40	450	7/8×211/16"	1.08
15 L 991	1713	50	450	7/8×33/16"	1.26
16 L 248	1714	60	450	1x311/16"	1.41
15 L 985	1716	. 80	450	1x311/16"	1.68
18 L 219	1718	100	450	13/8×41/8"	1.92
16 L 613	1802	10	475	3/4×115/16"	.81
16 L 614	1804	20	475	7/8 x 27/16" 7/8 x 1 1 1/16"	.96
15 L 175	1902	8	500	15/ × 23/-"	.78
15 L 176 15 L 177	1905 1906	16	500 500	15/16X23/16" 1 X23/16"	.96
16 L 249	1962	8	600	1 x 3½6"	1.71
16 L 256	1963	10	600	1 x 3½6"	1.77
16 L 257	1965	16	600	1x31/16"	2.02
16 L 258	1966	20	600	1x3½6"	2.07
10 2 230	1900	- 20	000	120/16	14.13

DUAL SECTION

Stock	TVA or TU*	1 117 1	111		NET
No.	Туре	Mfd	WVDC	Size	EACH
15 L 255	2315	10-10	50	7/8×17/16"	.84
15 L 245	2415	8-8	150	7/8×17/16" 7/8×17/16"	.90
15 L 254	2420	16-16	150	7/8×17/16"	1.08
15 L 247 15 L 253	2428 2421	20-20	150	7/8×17/16"	.99
		30-20	150	7/8×111/16"	1.02
15 L 252	2438	40-20	150	7/8×111/16"	1.05
15 L 251	2434 *420	30-30 40-20†	150	7/8×111/16"	1.08
15 L 250	2442	40-201	150 150	1½6x25/8" 7/8x115/16"	1.32
15 L 243	2445	40-40	150	7/8×115/16"	1.00
					1.11
15 L 244	2450 2453	50-30 50-50	150 150	7/8×115/16" 7/8×27/16"	1.17
15 L 306	2460	80-30	150	7/8×27/16"	1.26 1.32
16 L 259	2462	80-50	150	7/8 x 215/16"	1.41
16 L 262	2464	100-100+	150	13/8×33/8"	1.92
16 L 263	2467	200-5†	150	1x37/8"	1.59
18 L 221	2640	140-5†	350	$1\frac{1}{4} \times 3\frac{7}{8}$	2.49
15 L 220	2720	8-8	450	7/8 x 1 1 1/16"	1.12
15 L 221	*88	8-8†	450	$1\frac{1}{16} \times 3\frac{3}{8}$ "	1.29
15 L 222	2725	16-8	450	7/8 x 23/16"	1.20
15 L 884	2722	10-10	450	7/8 x 1 15/16"	1.11
15 L 215	*1616	16-16†	450	13/8×31/8"	1.68
15 L 227	2730 2735	20-20	450	7/8×215/16"	1.50
15 L 987	2740	30-30 40-40	450	1 x 33/16"	1.80
18 L 220	2711	80-100†	450 450-50	1 x 3 ¹⁵ / ₁₆ " 1 3/ ₈ x 4 3/ ₈ "	2.04
		1 00-1001	1 300-00 I	1784478	Ter 0 6 6

TRIPLE SECTION

Stock No.	TVA Type	Mfd	WVDC	Size	NET
15 L 307 15 L 308 15 L 309 18 L 222 15 L 327	3440 3448 3451 3453 3455	20-20-20 40-30-20 40-40-40 50-30-20 80-40-20	150 150 150 150 150 150	7/8 x1 11/6" 7/8 x2 3/6" 1 x2 7/6" 1 x2 1/6" 1 x2 1/6"	1.50 1.56 1.68 1.62 1.74
15 L 988	3415	20-20-20	150-150-25	7/8 x1 7/18"	1.47
15 L 312	3423	40-30-20	150-150-25	7/8 x1 15/16"	1.50
15 L 328	3427	40-40-100	150-150-25	7/8 x2 7/16"	1.68
15 L 313	3430	50-30-20	150-150-25	7/8 x2 3/16"	1.59
15 L 329	3433	50-30-200	150-150-25	1x2 ⁸ / ₆ "	1.65
15 L 314	3436	50-50-20	150-150-25	1 ¹⁵ / ₆ x2 ⁸ / ₆ "	1.65
18 L 223	3437.1	80-40-20	150-150-25	1x1 ¹⁵ / ₆ "	1.68
15 L 990	3716	12-12-20	450-450-25	1x1 ¹⁵ / ₆ "	1.38

QUADRUPLE SECTION

Stock No.	TVA Type	Mfd	WVDC	Size	NET
16 L 284 16 L 287 16 L 288	4576† 4618† 4659†	80-60-40-20	300-300-200-150 350-350-300-150 400-400-300-50		
18 L 224 18 L 225 15 L 856		10-80-40-40 40-20-20-10 40-40-20-20	450-300-250-250 450 450	1 3/8 x4 3/8" 1 3/8 x4 3/8" 1 1/2 x4 1/4"	



VL VERTI-LYTIC ELECTROLYTICS

- Ideal for Replacement in Original Equipment
- Have Long Shelf Life

A selection of top-quality electrolytic capacitors especially designed for replacement of units of the same type found on printed circuit boards in original equipment. These rugged, extremely small capacitors feature unusually low leakage currents and exceptionally long shelf life. Special resin end fill assures that electrolyte will not become contaminated; it

- In Sturdy, Pre-Molded Phenolic Cases
- Low Current Leakage

also protects capacitors against internal drying or the entrance of external moisture. Units are housed in sturdy, premolded phenolic cases. Have unique contact design that makes it virtually impossible, polaritywise, to install them incorrectly—the negative leads are easily identified by their larger diameters. Av. shpg.

Stock	_VL			1 1 1 No.	NET	Stock	_VL				NET
No.	Type	Mfd	WVDC	Size	EACH	No.	Туре	Mfd	WVDC	Size	EACH
16 L 522	1032	2	3	3/8 x 3/4"	.87	16 L 685	1167	10	15	3/8 x 3/4"	.90
16 L 693	1038	10	3	3/8×3/4"	.87	16 L 572	1168	15	15	3/8 x 3/4"	.93
16 L 694	1045	50	3	3/8×3/4"	93	16 L 686	. 1169	20	15	3/8 x 3/4"	.93
16 L 527	1055	150	3	1/16X7/8"	1.05	16 L 573	1170	2.5	15	$\frac{3}{8}$ x $\frac{3}{4}$ "	.93
16 L 696	1067	290	- 3	1/2×7/8"	1.20	16 L 687	1174	50	15	7/16×7/8"	.99
16 L 530	1080	1	6	3/8×3/4"	.87	16 L 688	1180	90	15	1/2 x 7/8"	1.17
16 L 532	1082	3	6	3/8×3/4"	.87	16 L 575	1201	2	25	3/8×3/4"	.90
16 L 689	1084	5	6	3/8×3/4"	.87	16 L 590	1204	5	25	3/8 x 3/4"	.99
16 L 690	1087	10	6	3/8×3/4"	.87	16 L 591	1207	10	25	$3/8 \times 3/4$ "	.99
16 L 535	1090	25	6	3/8×3/4"	.87	16 L 592	1208	15	25	3/8×3/4"	.99
16 L 536	1094	50	6	3/8×3/4"	.93	16 L 682	1210	25	25	3/8×7/8"	.99
16 L 546	1100	100	6	7/16X7/8"	1.05	16 L 684	1215	50	25	1/2×7/8"	1.05
16 L 552	1104	150	6	1/2×7/8"	1.14	16 L 676	1302	3	50	3/8 x 3/4"	.93
16 L 557	1108	200	6	1/2×7/8"	1.17	16 L 678	1304	5	50	3/8 x 3/4"	.99
16 L 560	1124	-5	12	3/8×3/4"	.90	16 L 679	1307	10	50	3/8×7/8"	.99
16 L 562	1127	10	12	3/8×3/4"	.90	16 L 593	1308	15	50	7/16×7/8"	.99
16 L 564	1140	100	12	1/2×7/8"	1.14	16 L 680	1309	20	50	7/16X7/8"	.99
16 L 566	1161	2	15	3/8×3/4"	.87	16 L 681	1310	25	50	1/2×7/8"	.99
16 L 570	1164	5	15	3/8×3/4"	.90						

PW PRINTED CIRCUIT ELECTROLYTICS



New dual-section, upright mounting dry electrolytic capacitors. Small and compact; designed for exact replacement use in clock radios, hi-fi amplifiers, phonographs, and other devices having printed circuit board construction. Ideal for use by servicemen as replacements for "off-brand" capacitors with poor service histories. Consist of aluminum electrolytic capacitor sections, wrapped in insulating plastic film and housed in Kraftboard tubes. Have wax end-seals and pin-type terminals suitable for mounting on printed circuit boards. All have voltage ratings of 150 WVDC. Maximum operating temperature is 65° C. Size: 1" dia. x 2½" long. Shpg. wt., 3 oz.

No.	Type	Mfd	EACH
L	2450 2453	50 30 50-50	1.41
L 2 L 3	2454 2455 2456	60-40 70-30 70-50	1.47
L 5	2457 2461	75-30 80-40	1.50
L 7 L 8	2462 2463	80-50 100-50	1.56

Sprague and Aerovox Capacitors

SPRAGUE CAPACITORS

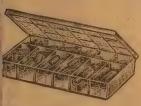
M MOTOR-STARTING CAPACITORS



An electrolytic capacitor designed especially for 110 volt capacitor start AC motors. Carefully engineered to pass the correct amount of orque. In tightly sealed aluminum cans with asulating outer cardboard tubes for high efficiency and dependability. Provided with lugerminals for quick, easy installation. Screws re removable for solder connections if desired. When in question as to proper size, choose the ext larger value of capacitance. *Minimum-aximum capacitance values replaceable with hese units. Av. shpg. wt., 10 oz.

	tock No.	Mfr's Type	*Mfd	Size	NET
5	L 948	1105	43-53	1x21/8"	.76
5	L 579	1106	47-56	$1x2\frac{1}{8}''$.76
5	L 580	1107	53-64	1x21/8"	.77
5	L 581	1108	64-77	1x2½"	.81
5	L 582	1109	72-88	1×25/8"	.83_
5	L 583	1110	88-108	1x25/8"	.78
5	L 584	1113	108-130	13/8×25/8"	.86
5	L 585	1116	124-149	13/8×25/8"	.89
5	L 586	1119	130-156	13/8×25/8"	.89
5	L 587	1122	145-175	13/8×25/8"	.96
5	L 588	1125	161-193	13/8 x 25/8"	.98
5	L 570	1123	189-227	13/8 x25/8"	1.13
5	L 57 1	1130	200-240	13/8×31/8"	1.17
5	L 572	1131	216-259	13/8×31/8"	1.22
5	L 573	1134	233-280	13/8x31/8"	1.35
5	L 574	1137	243-292	13/8x41/8"	1.41
5	L 575	1140	270-324	13/8 x41/8"	1.43
5	L 576		324-388	$1\frac{3}{8} \times 4\frac{1}{8}''$	1.62
5	L 577		340-408	13/8×41/8"	1.67
5	L 589		378-440	13/8 x 4 1/8"	1.80
5	L 578	1149	400-480	13/4×41/8"	1.82
,5	L 949		430-516	13/4 x 4 1/8"	2.09

"BLACK BEAUTY" CAPACITOR KITS



TK-1.72 "Black Beauty" capaci-tors in plastic case. All are 600 volt. Compartwolf. Compartmented case contains: 5—.001, 5—.002, 2—.0047, 8—.005, 15—.01, 8—.02, 2—.03, 5—.047, 12—.05, 12—. -.1, and 2-.25.

3/4x11x61/2". Shpg. wt., 21/2 lbs.

TK-3. 36 "Black Beauty" buffer capacitors of the most used ratings. From .001 to .03 nfd. 1600 WVDC. In clear, plastic case. Size, 134x11x61/2". Shpg. wt., 2½ lbs.

ELECTROLYTIC CAPACITOR KITS

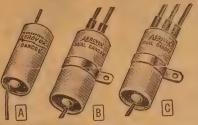


SK-106 Atom Electro-

EK-1 Atom Electrolytic Capacitor Kit. Consists of the following types of TVA capacitors: 1 each—#1205, 1303, 1304, 1410, 1704, 1711, 1716, 2450, 2453; 2 each—#1705, 1709, 1712. Capacitors are small in size; rated at 80° C. or 185° F. Supplied in crystal-clear compartmented plastic case—each capacitor is clearly identified. Case size, 1\(\frac{1}{2}\pi \text{11x6}\frac{1}{2}\text{.}\)Sh. 58 L 516 NET.

AEROVOX QUALITY CAPACITORS

TYPE PRS "DANDEE" MINIATURE ELECTROLYTICS



A -SINGLE SECTION

Stock No.	Mfd	Volts	Size	NET
	100 500 1000 100 250	6 6 12 12	11/16×1 1/4" 13/16×1 3/4" 15/16×2 1/4" 11/16×1 1/2" 13/16×1 3/4"	.72 .93 1.14 .72 .87
13 L 859 13 L 460 13 L 858 13 L 461 13 L 462	500 10 16 25 50	12 25 25 25 25 25	9/16×1 1/4" 9/16×1 1/4" 9/16×1 1/4" 9/16×1 1/4"	1.02 .60 .60 .60
13 L 463 12 L 604 13 L 857 13 L 450 13 L 856	100 250 500 10 20	25 25 25 50 50	1½6x1½" 1¾6x1½" 1½6x2½" 1½6x2½" 1½6x1¼" 1½6x1¼"	.81 1.02 1.38 .60
13 L 451 13 L 452 13 L 453 12 L 606 13 L 430	25 50 100 250 4	50 50 50 50 150	11/16×1 1/4" 11/16×1 3/4" 13/16×1 3/4" 15/16×1 3/4" 9/16×1 1/4"	.63 .72 .84 1.05
13 L 431 13 L 425 13 L 433 13 L 443 13 L 435	8 10 16 20 30	150 150 150 150 150 150	11/16X1 1/4" 11/16X1 1/4" 11/16X1 1/2" 11/16X1 3/4" 13/16X1 1/2"	.63 .69 .72 .78
13 L 436 13 L 441 12 L 607 13 L 426 13 L 427	40 50 60 80 100	150 150 150 150 150	13/16×13/4" 15/16×13/4" 15/16×13/4" 15/16×21/4" 15/16×21/4"	.81 .84 .90 .96
13 L 428 13 L 410 13 L 411 13 L 412 13 L 413	150 4 8 12 16	150 250 250 250 250 250	1½6×3″ 1½6×1½″ 1½6×1½″ 1½6×1¾″ 1½6×1¾″	1.14 .60 .69 .75
13 L 428 13 L 410 13 L 412 13 L 413 13 L 414 12 L 608 12 L 609 12 L 611	20 30 40	250 250 250 250 250 250	13/16×1 1/2" 13/16×2 1/4" 13/16×2 1/4" 15/16×2 1/4" 15/16×2 1/4"	.81 .87 .93 1.02 1.08
2	10 16 24 30 40	350 350 350 350 350 350	13/16X1 3/4" 13/16X1 3/4" 15/16X1 3/4" 13/16X2 1/4" 15/16X2 1/4"	.75 .84 .93 .99
12 L 617 12 L 617 13 L 385 13 L 385 13 L 389 13 L 389	1 2 4 8 10	450 450 450 450 450	9/16×1 1/4" 9/16×1 1/4" 11/16×1 1/2" 13/16×1 1/2" 13/16×1 3/4"	.66 .69 .69 .75
13 L 387		450 450	15/16X1 1/2" 15/16X1 3/4"	.81

Extremely compact high-quality tubular electrolytics in metal cans with cardboard insulating sleeves. Ideally suited to a wide variety of applications where space is at a premium, and dependable service is required. Negative leads are connected to aluminum cans. Dual and triple-section types have common negative leads. Single-section capacitors have bare, tinned copper leads, 3" long. Dual and triple-section types have flexible stranded-copper leads, 5" long, with insulating sleeves. All are conservatively rated for temperatures to 85°C. Sizes listed are diameters over cardboard insulating sleeve. Multiple units are supplied with mounting strap. Av. shpg. wt., 4 oz.

A-SINGLE SECTION (Cont'd)

i	Stock No.	Mfd	Volts	Size	NET
I	13 L 389	20	450	11/16x13/4"	.93
	13 L 395	30	450	11/16x21/4"	11.02
ı	13 L 396	40	450	1½6x2½"	11.08
1	12 L 620	60	450	11/16x31/4"	1.41
I	12 L 621	80	450	11/16x33/4"	1.68
ŀ	12 L 622	100	450	11/16×33/4"	1.92
	13 L 632	8	600	15/16×31/16"	11.71
	13 L 635	16	600	11/16x39/16"	2.07
	13 L 639	8	700	15/16×31/16"	1.74
	13 L 640	10	700	11/16x31/16"	1.83
	13 L 642	16	700	11/16x39/16"	2.10

B -DOUBLE SECTION

13 L 439 12 L 625 12 L 626 12 L 627 12 L 628	20-20 30-20 40-20 30-30 40-30	150 150 150 150 150	13/16×13/4" 13/16×21/4" 15/16×13/4" 15/16×13/4" 15/16×21/4"	1.02 1.05 1.08
13 L 442 12 L 629 13 L 853 13 L 854 12 L 635	40-40 80-40 50-30 50-50 10-10	150 150 150 150 250	15/16×2 1/4" 15/16×2 3/4" 15/16×2 1/4" 15/16×2 1/4" 15/16×2 1/4"	1.08 1.32 1.17 1.26
12 L 636 13 L 852 12 L 637 13 L 391 13 L 392	16-16 20-20 30-30 8-8 16-8	250 250 250 450 450	13/16×2 1/4" 15/16×2 1/4" 5/16×2 1/4" 13/16×2 1/4" 15/16×2 1/4"	1.02 1.11 1.35 1.02
13 L 397 12 L 638 12 L 639 12 L 640 12 L 641	10-10 16-16 20-20 30-30 40-20	450 450 450 450 450	15/16x2 1/4" 11/16x2 1/4" 15/16x3 1/16" 11/16x3 1/4" 11/16x3 1/4"	1.11 1.35 1.50 1.80
13 L 851 12 L 642	40-40 50-30	450 450	1½6×4″ 1½6×4″	2.01

C -TRIPLE SECTION

13 L 855	20-20-20	150	15/16×13/4"	11.51
12 L 643	30-30-20	150	11/16x13/4"	1.58
13 L 871	40-20-20	150	15/16×21/4"	1.58
12 L 645	40-30-20	150	15/16x21/4"	11.58
12 L 649	40-40-20	150	11/16×21/4"	1.63
13 L 872	40-40-40	150	11/16x21/4"	1.67
12 L 647	50-30-20	150	11/16x21/4"	1.63
12 L 648	80-40-20	150	11/16x21/2"	1.74
12 L 656	40-40,250	150,10	11/16x21/4"	1.71
12 L 659	40-20, 20	150,25	15/16×13/4"	1.53
12 L 662	50-30, 20	150.25	1½6×13/4"	1.59
12 1 655	50-50, 20	150.25		1.66
12 L 650	10-10-10	450	11/16x21/4"	11.67

TYPE P83Z MICROMINIATURE METALLIZED-PAPER TUBULARS



Ultra-small, metalized-paper dielectric capacitors ideally suited for coupling and bypass applications in radio, TV and other electronic equipment. Units are housed in humidity-resistant, molded thermo-plastic cases and are completely Hyvol K impregnated to protect against entrance of moisture. Improved metalized foil serves as both dielectric and electrodes. Tolerance, ±25%. Av. shpg. wt., 2 oz.

Stock No.	Mfd.	MADC	Size	EACH
13 L 492	.004	200	3/16×7/16"	.21
13 L 885	.005	200	3/16×7/16"	.21
13 L 886	.01	200	3/16×7/16"	.21
13 L 493	.02	200	1/4 x 9/16"	.27
13 L 494	.04	200	1/4×9/16"	.27
13 L 887	.002	400	3/16×7/16"	.21
13 L 888	.003	400	3/16×7/16"	.27
13 L 495	.008	400	1/4×9/16"	.27
13 L 889	.01	400	1/4 x 9/16"	.27
13 L 890	.0005	600	3/16×7/16"	.21
13 L 496	.0008	600	3/16×7/16"	.21
13 L 891	.001	600	3/16×7/16"	.21
13 L 892	.002	600		
13 L 497	.0022	600		27
13 L 894	.0047	600	1/4×9/16"	.27
13 L 895	.005	600		

AEP PLUG-IN ELECTROLYTIC CAPACITORS

Hermetically sealed, 1, 2 and 3-section dry electrolytics. In aluminum cans with insulated, 4-pin octal tube type bases. Fit all standard octal tube sockets; keyed guide pins insure correct installation and polarity. Designed for use in applications where continuous service is important; can be quickly replaced by simply plugging in a new unit. All units are vented for insure the continuous service is important; have etched aluminum foil construction. Have common negative leads. Operating temp. to +65° C. Av. wt., 5 oz.

SINGLE SECTION

Stock No.	Type	Mfd.	WVDC.		EACH
13 L 039		40	450	15/6x21/2"	2.77
13 L 040		80 10	450	1 3/8 x 3 1/2" 1 3/8 x 4 1/4"	3.25
13 L 041	21	10	1 000	11/811/4	2.04

DUAL SECTION

13 L 044 13 L 045 13 L 046	22J 44J 88J	$\left \begin{array}{c} 10-10 \\ 20-20 \\ 40-40 \end{array}\right $	450 450 4 50	1 3/8 x 2 1 3/8 x 2 1 3/8 x 3	1/2	17	2.5 2.9 3.3	701
						, .		

TRIPLE SECTION

3 L	047	222J 444J	10-10- 20-20-	10 20	450 450	1 3/8 x 3 "	3.29

TYPE V84C-V161 "AEROFILM" MYLAR CAPACITORS



An excellent selection of high-quality tubular capacitors.

Have rugged, humidity-proof polycap cases. Epoxy end fill will not flow, soften, or melt at any operating temperature, absorption and power factor. Extremely stable, have a relatively small capacitance change with temperature variations over the range of 0-85° C. Tolerance is ± 20%. Av. shpg. wt., 2 oz.

	200 V	VVDC		1	400	WVD	C (Cont'd)	
Stock No.	Mfd.	Size	EACH	l	Stock No.	Mfd.	Size	EACH
12 L 106	.0047 .0068 .01	9/32X ¹ 5/16" 9/32X ¹ 5/16" 9/32X ¹ 5/16" 9/32X ¹ 5/16" 5/16X1"	.15	-	12 L 163 12 L 164 12 L 177	.5 .68 1.0	11/ ₁₆ x2" 25/ ₃₂ x2" ½8x2½"	.68 .87 1.05
	.022	5/16 x 1	Talk park	1		600 V	VVDC	
12L 15 12L 16	.047	5/16X1 1/16"	.15	l	Stock No.	Mfd.	Size	EACH
12 L 17 12 L 18 12 L 19	.068 .1 .15	5/16x1 1/16" 5/16x1 1/16" 1 1/32x1 1/16" 3/8 x1 1/4" 1 3/32x1 1/4"	.15 .15 .18 .21 .24		12 L 178 12 L 179 12 L 180 12 L 181 12 L 182	.001 .0015 .002 .0022 .003	9/32 X 1 5/16" 9/32 X 1 5/16" 9/32 X 1 5/16" 9/32 X 1 5/16" 9/32 X 1 5/16"	.15
	.47 .68 .0	9/16X1½" 19/32X1¾" 13/16X1¾"	.27 .39 .51 .57		12 L 183 12 L 184 12 L 196 12 L 197 12 L 198	.0033 .004 .0047	9/32X15/16" 5/16X1" 5/16X1"	.15
	100 W	/VDC	4.5		12 L 197	.005	5/16X1" 5/16X1"	.15
12 L 136 12 L 137 12 L 138 12 L 139	Mfd. .0047 .0068 .01 .015	Size 9/32 x 1 5/16" 9/32 x 1 5/16" 5/16 x 1"	.15		12 L 199 12 L 230 12 L 231 12 L 232 12 L 249	.01 .015 .02 .022 .03	1 1/32 x 1 1/16" 3/8 x 1 3/16" 3/8 x 1 3/16" 1 3/32 x 1 3/16" 7/16 x 1 3/16"	.18
12 L 142 . 12 L 143 . 12 L 144 . 12 L 145 .	.02 .022 .03 .047 .05	5/16 x1 1/16" 1 1/32 x1 1/16" 3/8 x1 1/16" 3/8 x1 1/4" 3/8 x1 1/4" 1/2 x1 1/4"	.15		12 L 272 12 L 273 12 L 274 12 L 293 12 L 294	.033 .047 .05 .068	7/16 x 1 3/16" 1/2 x 1 1/4" 1/2 x 1 1/4" 1/2 x 1 1/2" 9/16 x 1 1/2"	.21 .24 .24 .27 .30
12L 148 12L 149		9/16X13/4" 5/8X13/4" 11/16X2"	.39	,	12 L 295 12 L 296 12 L 297 12 L 298	.2 .22 .47 .5	23/ ₃₂ x15/ ₈ " 3/ ₄ x15/ ₈ " 1/ ₈ x21/ ₈ " 1/ ₈ x21/ ₈ "	.48 .51 .84 .87

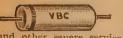
PTT-PWE POLYCAP PLASTIC-CASED ELECTROLYTICS



Ruggedly constructed miniature, "Polycap"-cased electrolytic capacitors. Especially recommended for use in all applications where space is limited as in the following: personal transistorized radios, hearing aids, instruments and a wide variety of electronic equipment with crowded chassis. All electrolytics are encased in sturdy, plastic tubes. Special plastic end-fill binds ends securely to case to extend working life of capacitors. Temperature range is from -30°C to +65°C. Capacity tolerance at 25°C is -10%, +250%. Sizes are dia. x length. Wt., 2 oz

Code		:e	Code Size				
A		/4" /8" /4" /8"	E 3/8 x1 1/4" F G 3/8 x1 1/4" 3/8 x1 1/2" H 3/8 x1 1/2"				
3 W	VDC	્ય છે.	1 _				
Stock No. Type	Mfd Cod	e EA.	Stock No. Type Mfd Code EA.				
L 851 3002	2 A	.75	II L 992 12005 5 A .75				
II L 852 3005 II L 853 3010		.75	15 WVDC				
L 857 3050 L 988 3100 L 859 3500		.75 .84 1.05	L 993 15005 5 A .75				
6 W	VDC	A river	25 WVDC				
L 989 6002 L 990 6003 L 991 6005 L 860 6010	2 A 3 A 5 A 10 A	.75	L 872 25005 5 A				
L 86 6025 L 862 6040 L 863 6050 L 864 6100	25 B 40 C 50 C 100 E	.75 .75 .75	L 876 25020 20 C .75 .75 C .75				
10 W	VDC		II L 88 25100 100 H 1.02				
L 865 10002 L 866 10005 L 867 10010 L 996 10020	2 A 5 A 10 A 20 B	.75	50 WVDC L 882 50001 1 A A				

VBC TYPE VIBRATOR BUFFER CAPACITORS



L 886 L 889 L 890

Extremely heavy-duty buffer capacitors effectively reduce vibrator hash and suppress interference. They are specifically designed and other severe service applications where vibrators are involved. "Hyvol-M" impregnated units offer maximum resistance to shock and temperature change. Capacitors are paper in ceramic tubes. All are rated at 1600 WVDC, except *, rated at 3000 WVDC. Av. shpg. wt., 3 oz.

Stock No. VBC-	Mfd.	Size	EACH	Stock No.	VBC-		Size	EACH
18 L 9 18 2 18 L 9 19 3 18 L 9 20 4 18 L 9 37 6 18 L 9 38 8	.001 .002 .0022 .0033 .0047	3/8×1½" 3/8×1½" 3/8×1½" 3/8×1½" 7/16×1½" 7/16×1½"	.30	18L 939 18L 940 18L 941 18L 942 18L 943	25 27 29	.0075 .01 .02	17/16 X11/2" 17/16 X11/2" 9/16 X11/2" 5/8 X2" 11/16 X2"	.33

MICA CAPACITORS







Molded low-loss bakelite

An excellent selection of extremely stable capacitors, for a wide variety of applications. Compact and precision-made, these capacitors are molded in low-loss bakelite, impregnated and color-coded. Feature highest voltages available in these case sizes. Types 1468LS and 1467LS are ideal for TV, low-power transmitters and power amplifiers. Type 1652L is a heavy-duty mica capacitor, with threaded mounting holes

TYPE 1469—SILVERED MICA

 $A = 500 \text{ WVDC.} \pm 5\% \text{ tolerance.}$ 45%4 x^2 %4 x^3 %6. Shpg. wt., 2 oz.

Stock	Mmf	MIL	NET
No.		No.	EACH
12 L 300	5	CM-20C-050	.24
12 L 301	10	CM-20C-100	
12 L 302	12	CM-20C-120	
12 L 303	15	CM-20C-150	
12 L 304	18	CM-20C-180	
12 L 305	20	CM-20C-200	.24
12 L 306	24	CM-20C-240	
12 L 307	27	CM-20C-270	
12 L 308	30	CM-20C-300	
12 L 309	33	CM-20C-330	.24
12 L 311	39	CM-20C-390	
12 L 312	43	CM-20C-430	
12 L 313	117	CM-20C-470	
12 L 3 1 4	50	CM-20C-500	.24
12 L 3 1 5	51	CM-20C-510	
12 L 3 1 6	56	CM-20C-560	
12 L 3 1 7	62	CM-20C-620	
12 L 3 18	68	CM-20C-680	.24
12 L 3 19	75	CM-20C-750	
12 L 3 20	82	CM-20C-820	
12 L 3 22	100	CM-20C-101	
12 L 323	150	CM-20C-151	.27
12 L 324	180	CM-20C-181	
12 L 325	200	CM-20D-201	
12 L 326	220	CM-20D-221	
12 L 327	240	CM-20 D-241	.33
12 L 328	270	CM-20 D-271	
12 L 329	300	CM-20 D-301	
12 L 330	360	CM-20 D-361	

TYPE 1464—SILVERED MICA

B 500 WVDC, except *300. ±5%, tolerance. 53%4x53%4x2",†except 53%4x53%4x21%4. Shpg. wt., 2 oz.

Stock No.	Mmf	MIL No.	NET
12 L 33! 12 L 332 12 L 333 12 L 334	470 510 560 620	CM-30D-471 CM-30D-511 CM-30D-561 CM-30D-621	.42 .42 .45
12 L 335 12 L 336 12 L 337 12 L 338	680 750 820 910	CM-30D-681 CM-30D-751 CM-30D-821 CM-30D-911	.48 .48 .51
12 L 339 12 L 340 12 L 341 12 L 342	2000 3000 3900	CM-30D-202 CM-30D-302 CM-30D-392	.60 .81 1.14 1.20
12 L 343 12 L 346	5000 10000*†	CM-30D-502 CM-35D-103	1.29

TYPE 1468LS—MIL-C-5A
500 WVDC. ± 20% tolerance
4%4x2%4x¾6". Shpg. wt., 2 oz.

Stock	Mmf	MIL	NET
No.		No.	EACH
12 L 468	5	CM-20B-050	.18
12 L 469	10	CM-20B-100	
12 L 470	20	CM-20B-200	
12 L 471	24	CM-20B-240	
12 L 472	30	CM-20B-300	.18
12 L 473	50	CM-20B-500	
12 L 474	82	CM-20B-820	
12 L 475	100	CM-20B-101	
12 L 476	150	CM-20B-151	.15
12 L 477	200	CM-20B-201	
12 L 478	250	CM-20B-251	
12 L 479	270	CM-20B-271	
12 L 480	300	CM-20B-301	.18
12 L 481	390	CM-20B-391	
12 L 482	430	CM-20B-431	
12 L 483	500	CM-20B-501	

TYPE 1467LS

B 500 WVDC, except *300 ±20% tolerance. 53/4x53/44x5/x/

Shpg. wt., 2 oz.

Stock No.	Mmf	MIL No.	NET
12 L 778 12 L 779 12 L 781 12 L 782	560 680 1000 1500	CM-30B-561 CM-30B-681 CM-30B-102 CM-30B-152	.18
12 L 783 12 L 784 12 L 785 12 L 786	2000 2200 2500 2700	CM-30B-202 CM-30B-222 CM-30B-252 CM-30B-272	.27 .27 .30
12 L 787 12 L 788 12 L 789 12 L 790	3000 3300 4700 5000	CM-30B-302 CM-30B-332 CM-30B-472 CM-30B-502	.36 .36 .39
12 L 791 12 L 794 12 L 795	5600 8200 10000*	CM-30B-562 CM-30B-822 CM-30B-103	.42 .60 .72

TYPE 1652L 2500 WVDC, ±10% toleran

13/4x15/16x7/16". Shpg. wt., 4 oz.					
Stock No.	Mfd.	NET			
12 L 485	.0001	1.14			
12 L 486	.0002	1.26			
12 L 490	.0005	1.53			
12 L 491	.001	1.74			
12 L 493	.002	2.55			
12 L 496	.005	3.72			
12 L 497	.01	4.38			

SRE BANTAM ELECTROLYTICS



Extremely small dry electrolytic, metal tubular capacitors handle full-sized loads. Ideal for limited space applications as in hearing aids, portable radios, TV receivers and instruments. Especially useful in low-furnished with an external wax-impregnated insulating sleeve. Negative grounded to can. 0°C to 85°C at rated voltages. Available in a wide range of capacitances and DC working voltages. Shpg. wt., 2 oz.

Code	Size	Code	Size
A	³ / ₈ ×1"	D	1/2×1"
B	³ / ₈ ×1 ¹ / ₈ "	E	1/2×1 1/8"
C	³ / ₈ ×1 ⁵ / ₈ "	F	1/2×1 5/8"

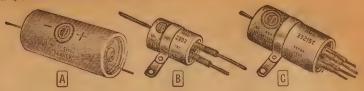
Stock	Mfd.	WVDC	Code	EA.
13L834	100	3	A	.66
13L835	200	3	C	.69
13L837	500	3	F	.84
13L842	25	6	A	.51
13L838	50	6	E	.57
13L820	100	. 6	F	.72
[3L843]	250	6	A	.81
13L821	50	12	В	.60
13L822	100	12	D	.72
13L823	200	12	F	.81
[3L844]	5	25	·A	-,60
[3L845]	10	25	A	.60
13L846	20	25	A	.60

Stock	Mfd.	WVDC	Code	EA.
13L824	25	25	A	.60
13L825	50	25	D	.66
13L826	100	25	F	.81
13L847	1	50	_A_	.54
[3L848]	2 5	50	A	.54
13L849		50	A	.60
13L827	10	50	A	.60
131829	15 25	50 50	B	.60
	- 5			.63
13L830	10	150 150	A C	.60
131819	20	150	ä	.63
131833	25	150	F	75

Cornell-Dubilier Tubular Electrolytic Capacitors

"BLUE BEAVER" TUBULAR ELECTROLYTICS

ubular electrolytic capacitors specifically designed for service reacement applications. Especially popular for cramped space installations in TV receivers, hearing aids, miniature radios and other small searblies. All are hermetically sealed in aluminum cans for protection against heat and humidity, and have cardboard outer sleeves. All we a common negative terminal which is grounded to the can. Rated roperation up to +85° C, except 500 volt types which are rated for mperatures up to +65° C. Av. shpg. wt., 4 oz.



ock No.	Type	Mfd		Size In.	NET
9 L 202 9 L 203 9 L 204 9 L 205 9 L 206	5-6 25-6 50-6 100-6 250-6	5 25 50 100 250	6	3/8 x 1 1/16 3/8 x 1 1/16 3/8 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16	.48 .51 .57 .72
9 L 285 9 L 286 9 L 287 9 L 272 9 L 273	500-6 1000-6 2000-6 250-15 500-15	500 1000 2000 250 500	6 6 6 15 15	1 ½x17/16 5/8 x11 ¼6 3/4 x2 ½x1¼6 ½x11/16	.93 1.14 1.38 .93 1.05
9 L 274 9 L 284 9 L 207 9 L 216 9 L 217	1000-15 2000-15 100-15 10-25 20-25	1000 2006 100 10 20	15 15 15 25 25	5/8 x 1 1 1/16 3/4 x 2 1/2 x 1 1/16 3/8 x 1 1/16 3/8 x 1 1/16	1.38 1.92 .75 .60
9 L 218 9 L 219 9 L 208 9 L 270 9 L 271	25-25 50-25 100-25 250-25 500-25	25 50 100 250 500	25 25 25 25 25 25	3/8 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16 5/8 x 1 1 1/16	.60 .66 .81 1.02 1.38
9 L 209 9 L 210 9 L 211 9 L 222 9 L 223	1-50 2-50 4-50 5-50 10-50	1 2 4 5 10	50 50 50 50 50	3/8 x 1 1/16 3/8 x 1 1/16 3/8 x 1 1/16 3/8 x 1 1/16 3/8 x 1 1/16	.54 .54 .60 .60
9 L 224 9 L 147 9 L 148 9 L 149 9 L 269	25-50 100-50 150-50 250-50 500-50	25 100 150 250 500	50 50 50 50 50	1/2 x 1 1/16 1/2 x 1 7/16 1/2 x 1 7/16 5/8 x 1 7/16 3/4 x 1 7/16 7/8 x 1 1 1/16	.63 .84 .93 1.05 1.44
9 L 214 9 L 249 9 L 226 9 L 247 9 L 248	4-150 8-150 10-150 12-150 16-150	4 8 10 12 16	150 150 150 150 150	3/8 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16 1/2 x 1 1/16	.60 .63 .63 .66
9 L 225 9 L 145 4 L 045 4 L 046 4 L 047	20-150 25-150 30-150 40-150 50-150	20 25 30 40 50	150 150 150 150 150	1/2×17/16 3/4×17/16 3/4×17/16 3/4×111/16 3/4×111/16	.72 .75 .78 .81
9 L 146 4 L 039 4 L 056 4 L 057 4 L 542	60-150 80-150 100-150 150-150 200-150	100 150	150 150 150 150 150	7/8 x 1 1 1/16 7/8 x 1 1 1/16 7/8 x 2 1 x 2 3/16 1 x 3	.90
4 L 543 9 L 227 9 L 228	300-150 4-250 8-250	300 4 8	150 250 250	1x3 ¹³ / ₁₆ 1/2x1/ ₁₆ 1/2x1 ⁷ / ₁₆	1.53

A SINGLE SECTION (Cont'd)						
Stock No.	Type	Mfd	W.V.	Size In.	NET	
19 L 229 14 L 033 14 L 034 19 L 142 14 L 035	12-250 16-250 20-250 30-250 40-250	12 16 20 30 40	250 250 250 250 250 250	1/2×1 ⁷ / ₁₆ 3/4×1 ⁷ / ₁₆ 3/4×1 ⁷ / ₁₆ 3/4×1 ¹¹ / ₁₆ 3/4×2	.75 .78 .81 .87	
19 L 143 19 L 144 14 L 020 14 L 021 14 L 022	50-250 60-250 4-350 8-350 12-350	50 60 4 8 12	250 250 350 350 350	7/8 x 1 1 1/16 1 x 1 1 1/16 5/8 x 1 1/16 5/8 x 1 7/16 3/4 x 1 7/16	1.02 1.08 .63 .72 .78	
14 L 023 14 L 018 14 L 026 14 L 544 14 L 545	16-350 20-350 40-350 60-350 80-350	16 20 40 60 80	350 350 350 350 350 350	3/4×17/16 3/4×17/16 7/8×2 1×2 1×3	.84 .87 1.05 1.17 1.26	
14 L 546 14 L 008 14 L 009 14 L 010 14 L 011	100-350 1-450 2-450 4-450 8-450	100 1 2 4 8	350 450 450 450 450	1 x3 5/8 x1 1/16 5/8 x1 1/16 5/8 x1 1/16 3/4 x1 7/16	1.38 .66 .66 .69	
14 L 012 14 L 013 14 L 014 14 L 015 14 L 016	10-450 12-450 16-450 20-450 30-450	10 12 16 20 30	450 450 450 450 450 450	3/4 x 1 7/16 3/4 x 1 7/16 3/4 x 1 1 1/16 3/4 x 1 1 1/16 7/8 x 1 1 1/16 1 x 2	.78 .81 .84 .93	
14 L 017 14 L 004 14 L 005 14 L 547 19 L 215	40-450 60-450 80-450 100-450 4-500	40 60 80 100 4	450 450 450 450 500	1 x2 ³ / ₁₆ 1 x3 1 x3 ⁹ / ₁₆ 1 x3 ¹³ / ₁₆ 5/ ₈ x1 ⁷ / ₁₆	1.08 1.41 1.68 1.92 .72	
14 L 000 14 L 001 14 L 002 14 L 003 14 L 534		8 16 20 30 8	500 500 500 500 600	3/4 x 17/16 7/8 x 1 11/16 7/8 x 2 1 x 2 13/16 x 27/16	.78 .90 .96 1.05	
14 L 535 14 L 537	10-600 16-600	10 16	600 600 700	15/16×33/16 11/16×33/16	1.32	

B DUAL SECTION						
Stock No.	Type	Nifd	W.V.	Size In.	NET	
19 L 220		20-20	25	18/6×11/4	.84	
19 L 250		10-10	50	18/16×1 1/4	.84	
19 L 252		20-20	150	13/16×1 7/8	.99	
19 L 254		30-30	150	15/16×1 7/8	1.08	
19 L 255		40-20	150	15/16X1 7/8	1.05	
19 L 257	4415	40-40	150	15/16x25/16	11.11	

Stock No.

L 213 L 214 L 226 L 227 L 228

L 481 L 482 L 483 L 484 L 485

18 L 18 L

1818 レレレレ

18 L 18 L 18 L

B DUAL SECTION (Cont'd)

Stock No.	Туре	Mfd	W.V.	Size In.	NET
19 L 258	5315		150	15/6x23/6	1.17
19 L 259			150	1 1/6 x 2 3/6	1.26
19 L 260	8415	80-40	150	1 ½ x 2 3/8	1.35
18 L 609	0183.7	100-50	150	1 x3	1.80
19 L 288	101015	100-100	150	1 1/16 x 3 8/16	1.92
18 L 610	0196		200	1x3%16	2.10
19 L 289	8D25	8-8	250	18/6×15/8	.96
19 L 263	2225	20-20	250	1 1/6 x 1 7/8	1.11
19 L 296	3325	30-30	250	1 1/6x2 3/8	1.35
18 L 614	0286	150-100	300	1 3/8 x 3 9/16	3.15
19 L 265	8D45	8-8	450	15/18X1 7/8	1.02
19 L 268	2245	20-20	450	1 1/16 x 3 3/16	1.50
19 L 297	3345	30-30	450	13/6×33/4	1.80
19 L 221	4445	40-40	450	1 1/6 x 4 1/4	2.04
18 L 617	0652	40, 50	450,50	1x39/16	1.80

TRIPLE SECTION

Stock No.	Type	Mfd	W.V.	Sizein In.	NET
19L230 19L231 19L233 19L234 19L235	22215 32V215 42215 43215 44215	20-20-20 30-25-20 40-20-20 40-30-20 40-40-20	150 150 150 150 150 150	7/8 x1 11/16 7/8 x2 1x1 1 1/16 1x2 1x2	1.32 1.35 1.35 1.41 1.41
19L236 19L298 19L238 19L239 19L241	44415 84215 3315C 4215C 4415C	40-40-40 80-40-20 30-30, 20 40-20, 20 40-40, 20	150 150 150, 25 150, 25 150, 25	1x2 ³ / ₁₆ 1x3 ½ x2 1x1 ¹¹ / ₁₆ 1x1 ¹¹ / ₁₆	1.47 1.65 1.32 1.29 1.35
19L242 19L243 19L245 19L276 19L279	4415 X25 5315 C 8415 C 5315 C 10 4225 C	80-40, 20 50-30, 100 40-20, 20	150, 25 150, 25 150, 25 250, 25	1x2 ³ / ₁₆ 1x1 ¹ ¹ / ₁₆ 1x2 ¹ / ₂ 1x2 ³ / ₁₆ 1x2 ³ / ₁₆	1.56 1.41 1.59 1.47 1.50
18L621	0185 1411		300 450, 150, 25	1½x3 1½x3	2.76

C QUADRUPLE SECTION

Stock No.	Type	Mfd	W. V.	Size in In.	NET
19L290	33215C	30-30-20, 20	150, 25	1x2	1.74
19L293	44315C	40-40-30, 20	150, 25	1x2½	1.80
19L294	55515C	50-50-50, 20	150, 25		2.07
		140-5, 200-30			3.09
		40-40-20, 20		13/8 x 4 3/16	
9L295	122245C	20-20-20, 20	1450, 25	11/8 x3 9/16	12.43

TYPE NLW "ELECTOMITE" SUBMINIATURE ELECTROLYTICS



Finy aluminum foil capacitors hernetically sealed into ultra-small tubuar aluminum cans. Ideal for transistorzed or printed circuitry in miniaturzed equipment. Cans are tightly fitted with an outer transparent plastic sleeve for freedom from "shorts" with adjacent components. Terminal bonnections are securely welded. Surge voltages may be 20% higher than working voltages. Tolerance: -10% to +150%. Leakage: 0.1 \(\mu \)a/mfd/volt, or less. Operating temperature: -20°C to +85°C. Av. wt., 2 oz.

NET

s. Ope	.I atting	50.
3 W	VDC	
Mfd	Size In.	-

Stock No.

18 L 640 19 L 612 19 L 775 19 L 595	25 50 100 125	1/4 x 1/2 1/4 x 3/4 3/8 x 5/8 3/8 x 5/8	.75 .75 .84
18 L 641 19 L 776 19 L 777	200 250 450	3/8 x 7/8 .3/8 x 1 3/8 x 1 1/2	.90 .96 1.05
	6 W	VDC	
18 L 645 15 L 994 19 L 774 19 L 597	10 15 30 125	3/16 X 1/2 1/4 X 1/2 1/4 X 5/8 3/8 X 3/4	.80 .81 .84
	10 W	VVDC	
18 L 652 18 L 653 19 L 773	25 50 125	1/4 x 5/8 5/16 x 3/4 3/8 x 7/8	.87 .93
	15 V	VVDC	
18 L 655 18 L 656 18 L 657 18 L 658 19 L 765	5 10 20 30 40	3/16 x 1/2 1/4 x 5/8 1/4 x 5/8 5/16 x 5/8 3/8 x 5/8	.84 .84 .87 .90
19 L 766 19 L 767 19 L 768 19 L 770	50 75 100 150 200	3/8 x 5/8 3/8 x 3/4 3/8 x 7/8 3/8 x 1 1/4 3/8 x 1 1/2	.96 1.02 1.08 1.17 1.26

-20°C to +85°C. Av. Wt., 202.					
	25 W	VDC			
Stock No.	Mfd	Size In.	NET		
19 L 596 19 L 758 19 L 759 19 L 608 18 L 660	3 6 8 10 15	3/16X 1/2 1/4 X 1/2 1/4 X 1/2 1/4 X 5/8 5/16 X 5/8	.78 .84 .87 .87		
19 L 760 19 L 761 19 L 762 19 L 763 19 L 764	25 30 40 50	3/8 x 5/8 3/8 x 5/8 3/8 x 3/4 3/8 x 7/8 3/8 x 1 1/2	.93 .96 1.02 1.08 1.26		
	50 V	VVDC			
19 L 754 19 L 755 18 L 662 18 L 663	4	3/16 X 1/2 1/4 X 1/2 1/4 X 1/2 5/16 X 5/8	.81 .87 .90		
18 L 664	20	3/8 x 5/8	.90		

19 L 757	50	3/8×11/4	1.11				
100 WVDC							
19 L 599 19 L 753 19 L 605 19 L 607	6 8 10 20	3/8 x 5/8 3/8 x 3/4 3/8 x 7/8 3/8 x 1 1/2	.90 .93 .93				
	150 \	WVDC					
19 L 750 19 L 751 19 L 600 19 L 602 19 L 752	1 2 5 10 18	1/4 x 1/2 5/16 x 5/8 3/8 x 5/8 3/8 x 1 3/8 x 1 1/2	.84 .87 .93 .96				

ECPB MINIATURIZED ELECTROLYTICS

Aluminum-foil units sealed in phenolic cases with single-ended parallel leads. Well suited for transistorized and printed circuitry. Tolerance, -10% to +150%. Temperature range, -20° to +65° C. Av. shpg. wt., 2 oz.

100 125 150

6 WVDC

15 WVD



In.	EA.	
3/8 x 5/8 3/8 x 7/8 7/16 x 7/8 7/16 x 7/8	.93 1.05 1.05 1.05	*
1/2 x 7/8 1/2 x 7/8 1/2 x 1 1/2 x 1 1/2 x 1 1/4 1/2 x 1 1/4	1.08 1.08 1.17 1.20 1.23	
3/8 x 3/4 7/16 x 3/4 1/2 x 7/8 1/2 x 1 1/2 x 1 1/4	.93 1.05 1.14 1.17	
3/8 x 5/8 3/8 x 5/8 3/8 x 5/8 3/8 x 5/8	.87	1
3/8 x 5/8 3/8 x 5/8 3/8 x 5/8 3/8 x 5/8	.90	1
		1 1
3/8 x 5/8 3/8 x 5/8 3/8 x 5/8 3/8 x 5/8	.93	

15 WVDC (Cont'd)					
Stock No.	Mfr's Type	Mfd	Size In.	NET EA.	
18 L 198 18 L 199 18 L 208 18 L 209	418 419 420 421	125 150 175 200	1/2 x 1 1/2 x 1 1/4 1/2 x 1 1/4 1/2 x 1 1/4	1.20 1.23 1.26 1.32	
		WVDC			
13 L 486 13 L 487 13 L 488 13 L 489 13 L 490 13 L 491	605	2 5 10 25 50 100	3/8 x 5/8 3/8 x 5/8 3/8 x 5/8 3/8 x 7/8 1/2 x 7/8 1/2 x 1 1/4	.90 .99 .99 1.05	
	50	WVD			
18 L 229 18 L 230 18 L 306 18 L 307 18 L 308	808 809 810 811 812	10 15 20 25 30	3/8 x 5/8 3/8 x 7/8 7/16 x 3/4 7/16 x 7/8 7/16 x 7/8	.99 .99 .99 .99	
18 L 309 18 L 317 18 L 318 18 L 319	813 814 815 816	35 40 50 75	1/2 x 7/8 1/2 x 7/8 1/2 x 1 1/2 x 1 1/2 x 1 1/4	1.05 1.05 1.17	
	75	WVD	12/ 5/	75	
18 L 327 18 L 329 18 L 333 18 L 334	901 902 903 904 905	1 2 3 4 5 6 8 10 15	3/8 x 5/8 3/8 x 5/8 3/8 x 5/8 3/8 x 3/4 3/8 x 7/8	.75 .75 .75 .78	
18 L 327 18 L 328 18 L 333 18 L 333 18 L 333 18 L 339 18 L 399	906 907 908 910	6 8 10 15 20	7/16 x 3/4 7/16 x 7/8 7/16 x 1 1/2 x 1 1/2 x 1 1/2	.75 .75 .75 .78 .78 .78 .81	

NEW "BLACK CAT" PKM CAPACITORS



Dual dielectric, extra hard molded tubulars combining "Mylar" and Kralt dielectrics. Highly reliable; moisture resistant. Operate from -40° to +125°C. without derating. Tol., ±10%. 2 oz.

		200	WADC	70.2								
Stk. No. Typ			Stk. No.	Type	Mfd	Size	EA.					
14L200 2S22 14L201 2S47	.022 5/16x1"	.15	14L204	2P33	.33	5/8 x 1 7/8"	.24					
14L202 2P1 14L203 2P22	$\begin{array}{c c} 0.047 & \frac{7}{16} \times 1 & \frac{1}{4} \\ 1 & \frac{1}{2} \times 1 & \frac{1}{2} \end{array}$	″ .15 ″ .21	14L205	2P47 2P68	.47 .68	11/16X1 15/16" 11/16X1 15/16"	.36					
14L203 2P22	.1 1/2x1 1/2 .22 5/8x1 7/8	" .24	141207	2W1	1.0	1x2½"	.63					
400 WVDC												
14L208 4D22 14L209 4D47	.0022 5/16x1" .0047 5/16x1"] [14L216	P1 .	10	/2x11/2"	.21					
14L2104S1	.01 5/6x1"	.15	14L2174	P15 .	15 1 22 5	/2x1 1/2" /8x1 7/8"	.24					
14L2114S15	$3/8 \times 1 \frac{1}{4}$		14L219	P33 .	33	½6×115/16"	.45					
14L2124S22 14L2134S33	.022 7/16×1 1/4"	.18	14L2204 14L2214	P47 .		1/16×115/16"	.45					
14L214 4S47	.033	.18	14L222	W1 1.	68 3	/4×21/4" x21/8"	.45 .75					
14L215 4S68	1.068 1/16x1 1/4"	.21		1		/ 0						
			WVDC									
14L223 6D1 14L224 6D22	1.001 5/16x1" 1.0022 5/16x1"	.15	14L233	P15 .	15 9 18 1	16x19/16" 1/16x115/16"	.30					
14L225 6D47	.0047 3/8x1 1/4"	.15	14L235	5P22 .	22 5	/8×17/8"	.42					
14L226 6S1 14L227 6S15	.01 3/8 x 1 1/4" .015 3/8 x 1 1/4"	.18	14L236 14L237	5P27 .	27 1 33 1	1/16 x 1 15/16" 1/16 x 1 15/16"	.42					
	$\frac{.013}{.022}$ $\frac{\frac{98}{8}}{\frac{3}{8}}$ $\frac{1}{4}$ "		14L238				.75					
14L228 6S22 14L229 6S33	033 74ex1 1/4"	211	14L239	5P47 .	47	/4x21/4" x21/8"	.75					
14L230 6S47	.047 1/2×1 1/2" .068 1/2×1 1/3"	.24	14L240	P56 .	56 1	x21/8"	1.05					
14L231 6S68 14L232 6P1	.047 \frac{1}{2}\times \frac\	.27	14L242	5P82	82	x2½" x2½" x2½"	1.05					
			WVDC	,								
14L245 10D1	.001 5/16x1"		14L2491	0547 .	047 9	%x19/16" /8x17/8"	.36					
14L246 10D33 14L247 10D47	$\frac{3}{1.0047} \frac{3}{8} \times 1 \frac{1}{4}$.30	14L2501	0930 .	056	½X1 ½" 1/16X1 15/16"	.36					
14L248 10S1	1.01 17/16x1 1/4"					710-4 710						
14100040		1600	WVDC									
14L252 16D1 14L253 16D22			14L2601	6S12 .	012	/2x1 1/2" /2x1 1/2"						
14L254 16D39	$91.0039 ^{3}/_{9} \times 11/_{4}"$.39	14L2621	6S22 .	022	/8 x 1 7/8" /8 x 1 7/8"	.42					
14L25516D47	$\frac{.0047}{3/8}$ $\frac{3}{8}$ x 1 $\frac{1}{4}$ "		141263	6533 .								
14L256 16D56	0.0056 3/8x1 1/4" 0.068 7/cx1 1/4"	.39	14L2641 14L2651			/ ₈ x 1 ⁷ / ₈ " 1/ ₁₆ x 1 ¹⁵ / ₁₆ "	.42					
4L257 16D68 4L258 16D82	2.0082 76x1 1/4"	.39	14L2661	6S68 .		/4×21/4"	.72					
14L259 16S1	1.01 1/2x1 1/2"	.42										
141247160724	1004 (9/ 40/ #		WVDC	05.5	0.0 % (4)							
14L267 60D1		.81	14L268				.81					
10,0 14L269 100T5	000 WVDC	. 001	1410704	12,50			1.00					
145207110013	0.0003 1/2 XI 1/2"	.90	14L270 1	23 15 .00	0025	/2X1 //2"	1.02					

DPMS PAPER "MYLAR"



Quality side-lead tubulars offering high insulation resistance, high operating temperature range, and dual-dielectric. Constructed with "Mylar" polyester film together with a film of the highest grade paper. The combination of these two substances provides a compact capacitor that is ideal for use in printed and transistorized circuits. "Fixfil" impregnant will not crack, soften or flow, even at maximum operating temperatures. Wire leads are held rigidly at fixed spacings. Tough, durable epoxy case has high humidity resistance, high dielectric strength against grounding, and is unaffected by accidental contacts with soldering irons. Temperature range: -55°C to +125°C. Derate voltage 25% at +125°C. Capacity tolerance: ±10%. Av. shpg. wt., 4 oz.

200 WVDC

Stock	Type	Mfd	Size	EA.	Stock	Type	Mfd	Size	EA.		
19L785 19L781 19L782	2S47	.02 .047 .05	11/ ₃₂ X55/ ₆₄ " 29/ ₆₄ X55/ ₆₄ " 29/ ₆₄ X55/ ₆₄ "		9L783 9L786 9L784			15/ ₃₂ ×13/ ₁₆ " 35/ ₆₄ ×13/ ₁₆ 5/ ₈ ×15/ ₁₆ "	.21		
400 WVDC											
19L787 19L788 19L792 19L789	4S2 4S22	.01 .02 .022 .05	25/64X ¹¹ /16" 25/64X ⁵⁵ /64" 13/ ₃₂ X ⁵⁵ /64" 27/ ₆₄ X1 ⁵ / ₃₂ "	.15	19L790 19L793 19L791	4P1 4P22 4P25	.1 .22 .25	33/64×13/16" 5/8×19/16" 21/32×19/16"	.24 .36 .36		
				600	WVDC				,		
16L852 16L853 19L794 16L854 19L795 16L856 16L856 16L857	6D15 6D2 6D22 6D3 6D33 6D4 6D47 6D5	.001 .0015 .002 .0022 .003 .0033 .004 .0047	11/32×11/16" 11/32×11/16" 11/32×11/16" 11/32×11/16" 3/8×11/16" 3/8×11/16" 3/8×11/16" 13/32×11/16" 13/32×11/16"	555555555555555555555555555555555555555	16L858 16L859 16L860 16L861 16L868 16L862 16L863 16L864 16L865	6S1 6S2 6S22 6S3 6S33 6S47 6S5 6S68	.0075 .01 .02 .022 .03 .033 .047 .05	3/8 x 7/8" 25/64 x 7/8" 7/6 x 7/8" 15/32 x 7/8" 27/64 x 15/32" 3/64 x 15/32" 3/64 x 15/32" 35/64 x 119/64"	.18		
16L867		.006	13/ ₃₂ ×11/ ₁₆ " 35/ ₆₄ ×15/ ₁₆ "	.15	16L866	0P1	.1	41/64×15/16"	.27		
				600	WVDC						
16L869 16L876 16L871	16D2 16D3	.002	23/64X ⁷ /8" 13/ ₃₂ X ⁷ /8" 31/ ₆₄ X ⁷ /8" 33/ ₆₄ X ⁷ /8"		16L872 16L873 16L874 16L875	16D6 16D8	.006	9/16×7/8" 15/32×13/16" 33/64×13/16" 33/64×13/16"	.27 .27 .30		
TUBULAR CAPACITOR KITS											
PKM Kit. Assortment of 80 PKM "Black-Cat" tubulars in the most popular values. Includes: 10 each, .001, .005, .02, .047 and .1 mfd; 12 each, .01, .05 mfd; and 6—.002 mfd. All rated 600 WVDC; have tolerances of ± 10%. In clear plastic hinged box, 17/8x11x61/2". 3 bbs. 15 60											
14 L 27	INET							15.	60		

WMF "MYLAR" FILM-ENCASED TUBULAR CAPACITORS



Combine small size with exceptional strength and dura bility; excellent stability with wide temperature range and long life. Feature high insulation resistance; low power iactor. Temp. range: -55° to +125° C. Derate voltage 10% at 100° C. 50% at 125° C.; full voltage to 85° C. Tolerance, ±10%. Av. wt., 2 oz.

				100	WVDC						
Stk.	No.	Mfd	Size	EA.	Stk. No	. Mfd	Size	EA.			
16 L 16 L 16 L	976 977 978	.001 .0015 .0022 .0033 .0047	5/32×1/2"	.21	16 L 98 16 L 98 16 L 98 16 L 98	6 .068 7 .1 8 .15	17/64X3/4" 9/32X3/4" 19/64X7/8" 21/64X7/8" 25/64X1"	.27 .27 .36 .36			
16 L 16 L	980 981 982 983 984	.0068 .01 .015 .022 .033	11/64x 1/2" 13/64x 1/2" 15/64x 1/2" 9/32x 5/8" 19/64x 5/8"	.21 .21 .21 .24	16 L 99	1 .47 2 .68	13/32×1 1/8" 15/32×1 1/4" 37/64×1 1/4" 5/8×1 1/2"	.45 .51 .57 .87			
	200 WVDC										

ľ	200 WVDC											
ı	Stk. No.	Mfd	Size	EA.	Stk.	No.	Mfd	Size	EA.			
	16 L 877 16 L 879 16 L 880 16 L 881 16 L 882	.001 .0015 .0022 .0033 .0047 .0068	5/32X 1/2" 5/32X 1/2" 5/32X 1/2" 11/64X 1/2" 3/8 X 1/2" 13/64X 1/2"	.21	16 L 16 L		.068 .1 .15 .22 .33 .47	11/32×3/4" 13/32×7/8" 1/2×7/8" 1/2×1 1/8" 35/64×1 1/8" 19/32×1 1/4"	.27 .36 .36 .39 .45			
	16 L 883 16 L 884 16 L 885 16 L 886 16 L 887	.01 .015 .022 .033 .047	15/64x 1/2" 19/64x 1/2" 9/32x 5/8" 17/64x 3/4" 5/16x 3/4"	.24		895 897 898	.68 1.0 1.5 2.0	21/ ₃₂ ×1 5/ ₈ " 3/ ₄ ×1 3/ ₄ " 29/ ₃₂ ×1 3/ ₄ " 1×1 7/ ₈ "	.57 .87 1.23 1.50			
ı				400	WVDC							
	CAL No	P. R. K -1	Ci-	I E A	CAL.	B.2 . /	8861					

400 WVDC										
Stk.	No.	Mfd	Size	EA.	Stk. No.	Mfd	Size	EA.		
		.001	5/32×5/8"	.21	16 L 837		25/64X1"	.33		
		.0015	5/32 x 5/8"	.21	16 L 838	.1	15/32×1"	.33		
		.0022	5/32X5/8"	.21	16 L 839	.15	33/64×11/4"	.36		
16 L	829	.0033	3/16X5/8"	.24	16 L 840	.22	9/16×13/8"	.42		
	830	.0047	13/64×5/8"		16 L 841	.33	19/32×15/8"	.66		
16 L	831	.0068	1/4×5/8"	.24		.47	45/64X15/8"	.78		
		.01	19/64X 5/8"		16 L 843	.68	51/64×13/4"	.96		
16 L	833	.015	23/64X5/8"	07	16 L 844	1.0	7/8×2"	1.20		
16 L	834	.022	5/16X3/4"	.21	16 L 846	1.5	31/32×21/4"	1.56		
16 L	835	.033	11/ ₃₂ x 7/8"		16 L 847	2.0	1 1/4×2 1/4"	2.04		
16 L	836	.047	13/32X7/8"	.30						
				600	MANDO					

16 L 836	.047	13/32×7/8"	.30				
			600	WVDC			
Stk. No.	Mfd	Size	EA.	Stk. No.	Mfd	Size	EA.
20 L 604 20 L 605 20 L 606 20 L 607 20 L 608 20 L 609	.001 .0015 .0022 .0033 .0047 .0068	11/64×3/4" 11/64×3/4" 3/16×3/4" 13/64×3/4" 15/64×3/4"	.24 .24 .24	20 L 615 20 L 616 20 L 617 20 L 618 20 L 619 20 L 620	.1 .15 .22 .33	1/2×1" 33/64×13/8" 5/8×13/8" 21/32×15/8" 11/16×2" 55/64×2"	.36 .42 .45 .51 .90
20 L 610 20 L 611 20 L 612 20 L 613 20 L 614	.01 .015 .022 .033 .047	19/64x3/4" 5/16x7/8" 21/64x7/8" 11/32x1" 27/64x1"	.30	20 L 621 20 L 622 20 L 624 20 L 625	1.5	31/ ₃₂ ×2" 111/ ₆₄ ×21/ ₂ " 19/ ₃₂ ×3" 115/ ₃₂ ×3"	1.53 2.55 3.48 4.38

"SILVER MIKE" DIPPED MICA CAPACITORS

Replace Molded Micas or Ceramics

Meet MIL-C-5B and EIA Specs

Micas or Ceramics

Designed to replace molded mica or ceramic capacitors in highly critical circuits, these exceptionally stable silver mica capacitors are multi-coated with tough phenolic to withstand extremes of heat and humidity. Silvered mica dielectric assures close temperature coefficients and high stability. Units operate at temperatures ranging from −55° C to +125° C without derating, and to +150° C with derating. All are rated at 500 working volts DC. Capacity tolerance is ±5% or 0.5 mmf, whichever is greater. "Silver Mikes" meet specifications of EIA and MIL-C-5B. Av. wt., 2 oz.

Code Size Code Size

	D 5/8 x 31/64 x 3/16"										
Stk. No.	Code	Mmf	EA.	Stk. No.	Code	Mmf	EA.	Stk. No.	Code	Mmf	EA.
19 L 995 19 L 996 19 L 997 20 L 000 20 L 001	A A A A	1 2 3 5 10	.12	20 L 024 20 L 025 20 L 026 20 L 027 20 L 028	B B B B	110 120 130 150 160	.15	20 L 050 20 L 051 20 L 052 20 L 053 20 L 054	D D D D	1100 1200 1300 1500 1600	.30 .33 .36 .39
20 L 002 20 L 003 20 L 004 20 L 005 20 L 006	A A A A	12 15 18 20 22	.12	20 L 029 20 L 030 20 L 031 20 L 032 20 L 033	B B B B	180 200 220 240 250	.18	20 L 055 20 L 056 20 L 057 20 L 058 20 L 059	DEEEE	1800 2000 2200 2400 2500	.45 .48 .51 .54
20 L 007 20 L 008 20 L 009 20 L 010 20 L 011	A A A A	24 27 30 33 36	.12	20 L 034 20 L 035 20 L 036 20 L 037 20 L 038	8 8 8 8	270 300 330 360 390	.21 .24 .24 .27	20 L 060 20 L 061 20 L 062 20 L 063 20 L 064	EEFFF	2700 3000 3300 3600 3900	.63 .69 .63
20 L 012 20 L 013 20 L 014 20 L 015 20 L 016	A A A B	39 43 47 50 51	.12	20 L 039 20 L 040 20 L 041 20 L 042 20 L 043	00000	430 470 500 510 560	.18	20 L 065 20 L 066 20 L 067 20 L 068 20 L 069	FGGGG	4300 4700 5000 5100 5600	.75 .75 .81 .81
20 L 017 20 L 018 20 L 019 20 L 020 20 L 021	B B B B	56 62 68 75 82	.12	20 L 044 20 L 045 20 L 046 20 L 047 20 L 048	00000	620 680 750 820 910	.21 .24 .24 .27 .27	20 L 070 20 L 071 20 L 072 20 L 073 20 L 074	GGGGG	6200 6800 7500 8200 9100	.93 1.05 1.11 1.23 1.32
20 L 022 20 L 023	B 8	91 100	.12	20 L 049	D	1000	.30	20 L 075	G	10,000	1.44

Capacitors—Capacitor Hardware—Interference Filters

CORNELL-DUBILIER TJU-TJL HERMETICALLY SEALED TRANSMITTING CAPACITORS

TRANSMITTING CAPACHOR ality Dykanol capacitors for dendable power supply filter applicans in industrial, laboratory, and insmitting equipment. Hermetically led case; dielectric impervious to it. Similar to Mil Type CP70, ype TJL, all others are Type TJL, huniversal mtg. strap. Type TJL standard width brackets with gle mtg. holes. Range: -55° to lerance: ±10%. Av. shpg. wt., 5 lbs.

ock No.	Mfd	WVDC	Size	NET
L'602	4	600	33/8 x2 1/2 x 13/16"	4.31
L 603	. 8	600	315/16x33/4x11/4"	6.18
L 650	10	600	$45/8 \times 33/4 \times 1/4$ "	6.52
L 614	.5	1000	21/8 x113/16 x11/16"	2.66
L 605	1	1000	21/8 x 113/16 x 11/16"	2.88
L 606	2	1000	413/16×11/16"	3.61
L 607	4	1000	45/8 x2 1/2 x13/16"	4.84
L 608	8	1000	$3\frac{7}{8}$ x $3\frac{3}{4}$ x $1\frac{3}{4}$ "	6.92
L 651	10	1000	45/8×33/4×13/4"	7.93
L 665	15	1000	43/4×33/4×21/2"	10.82
L 617	4	2000	313/16×33/4×21/4"	8.00
L 690	8	2000*	43/4×33/4×33/16"	12.09

TYPE DYR PAPER CAPACITORS

ph-reliability, metal cased, Dykanol paper pass capacitors. Non-inductively wound. r RF and AF by-pass, AF coupling circuits. et "F" characteristics of JAN-C-5. Tolnce: ±10%, 600 WVDC, except *1000 VDC. Operating range: -55°C to +85°C. shpg. wt., 6 oz.

ckNo.	Type	Mfd	Size	EA.
L 620	6005	.05	1 13/6x1 x 3/4"	1.72
L 621	6010	.1	1 18/16 x 1 x 3/4"	1.78
L 622	6025	.25	1 13/6 x 1 x 3/4"	1.85
L 623	6050	.5	1 13/6 x 1 x 7/8"	1.97
L 624	6100	1.0	2x1 3/4 x 7/8"	2.29
L 625	6200	2.0	2x2x1 1/8"	3.05
L 627	6011	.11	1 13/6 x 1 x 3/4"	2.44
L 629	6055	.55	2x1¾ x¾"	2.80
L 630	6110	1.0-1.0	2x2x1 1/8"	3.43
	10025*	.25	1 13/16 x 1 x 3/4"	1.93
	10050*	.5	2x1 3/4 x 13/16."	2.06

MOUNTING HARDWARE



bunting hardware for all types of capacitors, refully designed to suit tubular and canbe capacitor installations—above as well as ow the chassis. Rugged cadmium-plated

tock No.	Fig.	Description	Pkg. of 2
L 478 L 479 L 480 L 481 L 482	A A B B	Mtg. Ring; 1¼" dia. cans Mtg. Ring; 1¾" dia. cans Mtg. Ring; 1½" dia. cans Mtg. Clip; ¾" dia. cans Mtg. Clip; 1" dia. cans	.36
L 483 L 484 L 485 L 489 L 489	B C C D	Mtg. Clip; 1%" dia. cans "C" Clamp; %-%" cans "C" Clamp; %-1" cans Mtg. Strap; I.D. %" Mtg. Strap; I.D. %"	.36
L 492 L 493 L 494 L 495 L 496	D E E E	Mtg. Strap; I.D. 1/8" For 3/8-7/16" dia. cans For 1/2-9/16" dia. cans For 5/8-11/16" dia. cans For 3/8-13/16" dia. cans	36
L 497 L 498 L 499	E	For ½-15/16" dia. cans For 1-11/16" dia. cans For 13/8-17/16" dia. cans	.36

PRAGUE "HYPASS" CAPACITORS

ed-through VHF bysectorough VHF by-ss capacitors. Install series. 48P18 for vol-ge regulator. *Screw 'm. †AC volts. §Bulk-ad mtg. Wt., 2 oz.



ock No.	Type	Mfd.	Amps.	WVDC	Size	NET
L 688		.5	40	50	1x113/16"	2.28
L 970		.1	20	250†	11/16X113/16"	1.56
L 685	48P8*	.1	20	600	11/16X113/16"	1.56
L 683	46P12	.002	15	600	1/4×15/8"	1.29
L 971	46P8	.005	15	600	1/4 x 1 5/8"	1.29
L 972	47P6	.01	20	600	7/16X11/4"	1.41
L 689	80P3*§	.1	20	600	11/16X113/16"	1.77
L 973	47P12	.005	20	1000	7/16 X 1 1/4"	1.44
1. 974		.01	20	1000	7/16×11/2"	1.56
L 992		.005		2500	1x19/16"	1.74
i L 993	47P15	.01	20	2500	1x19/16"	1.86
L 697	47P16	.002	20	5000	1x19/16"	1.92

CORNELL-DUBILIER QUIETONE FILTERS

Wired-in Types



Type IF-7A. Designed for permanent installation at the source of interference. Capacitive-inductive type filter suppresses severe interference to radios, TV, etc. Attaches to oil burners, electric motors in dishwashers, disposal units, washing machines, home workshop tools, etc. For use with appliances operating on single-phase 110-220 volt AC or DC. Rated 5 amps. 6x6x4". Shpg. wt., 9 lbs. 70 L 124. List, \$13.75........... NET 8.25

Type IF-54. General-purpose capacative inductive filter for use in the home and in industry. Eliminates moderate interference from fluorescent fixtures, motors—any appliance drawing 2 amps or less from power line. Miniature size permits easy installation on any appliance. Rated 110-220 volts, AC or DC. 114.2x22". U.L. Approved. Wt., 8.0z. 70 L 114. List, \$2.50...... NET 1.50

Plug-in Types



AEROVOX INTERFERENCE FILTERS







Type IN-105. Rugged, low-impedance delta-connected capacitor. Designed to eliminate interference caused by fluorescent fixtures, electric drills, large motors, etc. Connects either across the line, or as a bypass from line to ground. Compact bathtub case. Size: 13/4x1x3/4/high. Shpg. wt., 6 oz. 70 L 307. List, \$1.75... NET 1.05



SPRAGUE NOISE FILTERS

Type IF. Compact, multi-section filters for suppres-sing man-made radio and TV interference. Small and completely self-con-tained. For use on fans, drills, thermostats, arcing devices, etc. Rated up to 220 volts, AC or DC. Easily installed. Av. shpg. wt., 8 oz.



Stock I	Vo.	Type	Fig.	Size	Sections	EACH
70' L 1	05	IF-21	R	1x23/16"	Dual	1.05
70 L 1	13	IF-S1	P	3/4×21/16" 1×27/16"	Single	.69
70 L I	12	IF-37	R	1x2 ⁷ /16"	Triple	1.35



Charle	BAC-1- 1		,	Size	NET EACH
70 L 092 70 L 094	2 4	10 20	TS	1½x2x2″ 1″ dia.x1 ¹³ /16″	8.88

FEDTRO "TV TROUBLE TRAPPER"

Constant "K" type high-pass filter Constant "K" type high-pass filter. Greatly reduces interference caused by signals below 54 mc. Quickly and easily attached to the antenna terminals of any TV set. Eliminates Amateur signals, diathermy and other industrial interference, ignition noises, etc. Attenuation of undesired signals in excess of 40 db. Size 1½x3½x1". Shpg wt., 12 oz.



Cornell-Dubilier, Sprague, Mallory Electrolytic Capacitors.

CORNELL-DUBILIER UP AND UPE CAPACITORS



Efficient, electrolytic capacitors in hermetically sealed, seamless aluminum cans. Ideal for use in all types of original equipment as well as for exact replacement in radio, TV, audio, and other electronic equipment. Up to 50 WVDC, capacity tolerance is -10% to +250%; from 51 to +55%. Up to 450 WVDC, tolerance is -10% to +100%; from 351 to 450 WVDC, tolerance is -10% to to +55%. Up to 450 WVDC, temperature range to +85°C; 500 WVDC types, rated to +65°C. All are UP types except *UPE types designed for selenium rectifier circuits. Av. wt., 5 oz.

SPRAGUE TVL AND PCL MIDGET **CAN CAPACITORS**



"Twist-Lok" hermetically sealed, aluminum can capacitors. Withstand extremely high temperatures, ripple currents, and surge voltages. For use in selenium rectifier circuits. §PCL types are for use in printed circuits. With both bakelite and metal mounting washers. All types rated +85°C. Up to 150 WVDC, capacity tolerance is -10% to +100%; above 150 WVDC, -10% to +50% Can is common negative. Terminals are welded tocapacitor cathodes and tinned for easy soldering. Values clearly marked to eliminate replacement error. Av. Shpg. wt., 6 oz.

MALLORY TYPE FP, PFP, AND WP CAPACITORS



For filter, audio by-pass, and TV circuits. Suitable for use with selenium rectifiers. Stable under high ripple current, surge voltages and temperatures. FP types have fabricated plates—tWP types have etched-plate anodes. ††PFP and PWP types are for printed circuits. Tolerances: 0-50 WVDC, -10% to +250%; 100-350 WVDC, -10% to +50%. All types rated to +85°C. Supplied complete with insulating washer. Can is common negative. For mounting hardware, see previous page. Av. wt., 6 oz.

Twist-Prong Capacitor Size Chart

											Dia. x L				
A B	3/4×2" 1×1 1/2"	C	1x2" 1x2½"	E F	1x3" 1x3½"	G H	1x35/8" 1x4"	J K	13/8×2" 13/8×21/2"	L M	1 ³ / ₈ x3" 1 ³ / ₈ x3 ¹ / ₂ "	N P	1 ³ / ₈ x3 ⁵ / ₈ " · 1 ³ / ₈ x4"	RS	1 ³ / ₈ x4 ¹ / ₈ " 1 ³ / ₈ x5"

SINGLE SECTION—Specify Stock Number and Manufacturer's Type Number When Ordering

			C- [) I	SPRA	GUE	MALL	PRY		11 1			C-1	D	SPRA	GUE	MALL	ORY	
Stock No.	Cap. Mfd.	DC WV	A, X	4*	TVI	-	FP, W		NET EACH	Stock No.	Cap. Mfd.	DC WV	A, X	A *	TV	L	FP	k	NET EACH
			Туре	Size	Туре	Size	Type	Size					Туре	Size	Туре	Size	Туре	Size	
70LL952 70LL949 70LL950 70LL951 70LL947	2000 1000 2000 3000 500	6 15 15 15 25	0040 0060 0070 0080 0120	J D J L C	1115 1165 1168 1170 1220	JD JLC	039A† 041A† 042A† 057A†	B J J B	1.83 1.53 2.07 2.55 1.53	70LL930 70LL921 70LL922 70LL924 70LL925	200 80 100 150 250	250 300 300 300 300 300	0318* 0340 0355*	L L L	1547 1573 1578 1584 1590	M F H M	128 129.1	D D	2.19 1.53 1.74 2.10 3.33
70LL948 70LL942 70LL943 70LL944 70LL945	1000 100 500 1000 1500	25 50 50 50 50	0130 0140 0160 0170 0174	J A K N R	1230 1317 1330 1338 1341	J A K M P	059† 065† 068†	J J L	2.13 .99 1.59 2.25 2.64	70LL916 70LL917 70LL918 70LL919 70LL920	40 50 80 125 150	350 350 350 350 350	0380 0390 0401* 0411* 0415*	DEKLN	1621 1622 1630 1638 1642	C C M P	137 138 140 140.6	C K K	1.20 1.26 1.71 2.37 2.37
70LL933 70LL934 70LL935 70LL936 70LL937	50 80 100 120 140	150 150 150 150 150	0200 0231* 0241* 0250	C C D J	1415 1420 1423 1425 1428	CDDDE	115A 116A 116.5A 116.8††	B B C E	.99 1.11 1.20 1.29 1.29	70LL907 70LL908 70LL909 70LL910 70LL911	10 15 20 30 40	450 450 450 450 450	0430 0450 0460 0470 0480	CCCDE	1705 1709 1714 1720 1725	HUOOD	142 143 144 145 146	A B C D D	.93 1.02 1.08 1.17 1.23
70LL938 70LL939 70LL940 70LL941 70LL931	150 150 200 300 120	150 150 150 150 200	0261* 0262* 0263 0265.3*	E K L J	1429 1430 1431 1434	E L P M	117A 118A 119A 121	C J J	1.29 1.29 1.47 1.68	70LL912 70LL913 70LL914 70LL915 70LL900	50 80 100 125 10	450 450 450 450 500	0490 0510 0512 0514 0520	E K L P C	1728 1735 1750 1760 1940	E K L P C	149 150	K L B	1.41 1.83 2.07 2.31 1.02
70LL932 70LL926 70LL927 70LL928 70LL929	160 20 40 100 150	200 250 250 250 250 250	0270 0291 0312* 0315*	A C E K	1473 1509 1519 1535 1540	L C E K	122††	K	1.89 .96 1.08 1.62 1.86	70LL901 70LL902 70LL903 70LL904 70LL905	40 80	500 500 500 500 500	0530 0541* 0550 0560	D E F L	1943 1947 1950 1958 1960	D E F L M	173 175 177 187	C D E	1.11 1.20 1.50 2.16 2.10

DUAL SECTION—Specify Stock Number and Manufacturer's Type Number When Ordering

Stock	Сар.	DC	C-1		SPRAC		FP, W		NET	Stock	Cap.	DC	C-	D	SPRA	GUE	MALL	ORY	NET
No.	Mfd.	WV	B, X		TVL, P		PFP		EA.	No.	Mfd.	wv	2	3	TV	'L	FP		EACH
				Size		Size		Size				1	Type	Size		Size		Size	- 19
70LL813 70LL810 70LL811 70LL997 70LL998	1000-1000 50-50 100-100 20-20 30-30	50 50 150 150	0040 0080 0085 0091* 0110	D C C B C	2160 2320 2326 2415 2422	FCCCC	200† 202.1† 202.5A† 208A 211A	J B B B	2.64 1.02 1.26 1.02 1.11	70LL963 70LL964 70LL965 70LL966 70LL967	10-10 20-10 15-15 20-20 30-10	450 450 450	0370 0390 0380 0400 0410	C D D D E	2750 2754 2753 2755 2757	C D D E E	231 231.3 234A	D D	1.14 1.35 1.35 1.53 1.44
70LL800 70LL801 70LL802 70LL803	40-20 40-40 50-30 50-30 50-50	150 150 150 150 150	0120 0141 0150 0161*	B B C	2425 2428 2432 2432 2435	CDDCD	210A 212A 213A 213.1†† 214A	B B C B	1.11 1.14 1.20 1.20 1.29	70LL968 70LL969 70LL970 70LL972 70LL973	30-30 40-20 40-40 50-50 60-40	450 450 450	0430 0440 0450 0455	K K L	2759 2762 2764 2767 2770	K K L L M	237 238A 240	K K L	1.83 1.95 2.07 2.31 2.37
70LL804 70LL805 70LL806 70LL807 70LL808	70-30 80-40 80-50 200-5 200-200	150 150 150 150 150	0181*	C	2439 2442 2442.1 2444 2447	D K D L P	214.3†† 216.2A 216.1A 216.4A	C E J K	1.32 1.38 1.44 1.62 2.40	70LL974 70LL975 70LL976 70LL977 70LL978	60-60 80-10 80-20 80-40 100-40	450 450 450	0470 0473 0480 0483	LNNR	2772 2776 2776.5 2778 2780	M L L M P	242.5A 245.2	M L	2.70 2.16 2.34 3.03 2.91
70LL809 70LL995 70LL992 70LL993 70LL994	200-5 20-20 40-40	150 200 250 250 250 250	0196* 0210 0241* 0250	J B C R	2470 2515 2520 2535	JCCP	216.4†† 217A 221A 217.7A	B C K	2.40 1.83 1.14 1.50 3.09	70LL981 70LL980 70LL958 70LL959 70LL960	80-100	475	0630 0722 0485 0486	C L D J	2701 2711 2820 2824 2830	CLDEL	258 259 262	DE L	1.02 2.25 1.41 1.56 3.24
70LL989 70LL990 70LL991 70LL984 70LL985	80-80 15-15	300 300 300 350 350	0254* 0270 0290 0300	ELCC	2565 2575 2585 2625 2626	CKLCE	217.87 225A 227A	C C	1.32 2.25 2.43 1.35 1.74	70LL961 70LL962 70LL953 70LL954 70LL955	80-40 80-50 10-10 20-20 30-30	475 500 500	0489 0490 0500	R C K	2850 2851 2933 2935 2937	P P D K L	264.5 266 284	R R ···· K	3.78 3.12 1.17 1.71 1.95
70LL986 70LL988 70LL982	100-100	350 350 400	0310 0332 0354	E R N	2628 2641 2677	E P L	227.3A 227.7A	D K	1.74 3.69 2.82	70LL956 70LL957	40-40 60-40		0530 0540	L	2940 2944	L M	288	L	2.58 2.76

TRIPLE SECTION—Specify Stock Number and Manufacturer's Type Number When Ordering

Objects		20	C-D		SPRAG	UE	MALLOR	Υ					C-D ₀		SPRAG	UE I	MALLOR	Y	
Stock ,	Cap.	DC WV.	C, XC	*	TVL, PO	L§	FP, WP†, PF	P††	NET EACH	Stock No.	Cap. Mfd.	DC WV	C, XC	*	TVL, PC	L§	FP, PFP	††	NET
			Туре	Size	Туре	Size	Туре	Size	LAUII	110.	Wild.		Type	Size	Type	Size	Туре	Size	LAGII
70LL895		25	0010	C	3210	C			1.17	70LL889					3427	E	309A	C	1.62
70LL896 70LL892		25 150-150-10			3230 3411 §	C	520A† 302.38††	В	1.92	70LL890				.D	3430	C	311A	C	1.59
70LL893				·K	3414.3 §	Ď	302.5A	D	1.68	70LL312 70LL891					3431.3 3431.1 §	D	311.12††	D	1.83
70LL894					3414.5	K	302.75††	E	2.10	70LL875		150	∪041*	C	3433	C	311.2A	В	1.38
70LL886 70LL887				C	3423 3426	E	307A 310A	B	1.50	70LL876		150	00/1*	C	3437 -	D	311.4A	В	1.44
70LL838					3423.2	D	314A	Č	1.44	70LL877 70LL878		150 150	0080 0 090	C	3438 3440	F	311.5A	C	1.50

Cornell-Dubilier, Sprague, Mallory Electrolytic Capacitors

TRIPLE SECTION Cont'd-Specify Stock Number and Manufacturer's Type Number When Ordering

			C-D	SPRAG	UE	MALLORY					C-1	D	SPRAG	UE	MALLO	RY	
Stock No.	Cap. Mfd.	DC WV	C, XC*	TVL, PO	CLS	FP, PFP††	NET	Stock	Cap.	DC WV	C		TVL		FP		NET
IVO.	wird.	VV X	Type Size	Type	Size	Type Size	EACH	No.	Mfd.	WV.	Type	Size	Type	Size	Type	Size	EACH
O LL 879	50-40-30	150		3441.2 §	D	311.63†† D	1.62	70 LL 844	20-10-20	450-450-25	0960	D	3735	E			1.62
O LL 880	50-50-50		0105* E	3442	E		1.80	70 LL 845	20-20-20	450-450-25	0990	E	3739	E	345.8	E	1.83
0 LL 881	60-40-20 80-40-20		0110 C	3443	Ē	011.7	1.65	70 LL 847	40-40-20 20-10-50	450-450-25	1070	Ļ	3744	K	346	Ŀ	2.34
0 LL 883	120-120-40		0120 E 0126* L	3444 3448.2	ī	311.7 J 311.9A J	2.43	70 LL 840 70 LL 310	30-15-150	450-450-50 450-450-50	0970	E	3751 3753	E	366	E	2.22
O LL 884	250-200-10		0129* R			311.57	3.36	70 LL 841	40-10-100	450-450-50	1090		3754.2				2.58
O LL 885	200-100-60		0127* N	3450	M		2.73	70 LL 842	80-20-100	450-450-50	1108	Ř	3757	P			2.88
O LL 874	60-200-140	200-150-150	1202* P	3461.4	P		2.88	70 LL 839	40-40-40	450-450-150		.,	3758	M			2.49
O LL 873	80-10-20	200-200-50 250-250-25	0670 D	3471 3513	E		1.68	70 LL 837 70 LL 838	40-10-80	450-450-200 450-450-200	1050	L	3761 3764	L P	375A	M	2.34
O LL 870	40-20-20	250	0160 E	3540	<u></u>	320 J	1.74	70 LL 823	10-10-10	450-450-200	0240	D	3776	E	375.8	D	1.56
O LL 869	100-200-60	300-150-150	0100 E	3560. 5	P	326.3 P	3.00	70 LL 824	15-15-10	450	0250	E	3778	F	376.1		2.67
'O LL 867	200-60-20	300-250-250		3563	P		3.30	70 LL 825	20-10-10	450	0260	E	3779	E	376.3	E	1.74
0 LL 866	100-60-20 10-10-10	300-250-250		3562	P	335 L	2.94	70 LL 826	20-20-20	450	0270	K	3780	K	376.5		2.16
O LL 862	-	300	0210 C	3580	C		1.44	70 LL 827	30-20-20	450	0280	별	3781				2.31
0 LL 863	120-50-40 150-100-30	300 300	0200 R	3585 3586 §	P	326.76†† P	3.51	70 LL 828 70 LL 829	30-30-30 40-30-20	450 450	0300 0330		3782 3784	M			2.61 2.58
0 LL 311	10-50-100	350-150-50		3608	F	320.70	1.71	70 LL 830	40-40-10	450	0340	ĭ	3785	M	376.8	i.	2.49
0 LL 861	30-30-20	350-300-25	1310 E	3620	E	331 D	1.89	70 LL 831	40-40-20	450	0344	L	3786	L			2.67
0 LL 857	15-10-20	350-350-25	0770 C	3630	D	328A C	1.50	70 LL 832	40-40-40	450	0350	N	3787	M	377.1	P_	2.94
0 LL 859	20-10-20 20-20-20	350-350-25 350-350-25	0780 C	3634 3635	D	329.5 C	1.53	70 LL 833	60-20-20 60-30-10	450 450	0360	N	3789 3790	L			2. 76 2.70
0 LL 850	30-30-20	350-350-25	0800 D 0840 J	3636.3	i	329.5	1.74	70 LL 834 70 LL 835	60-40-20	450	0365	N	3790	M			3.00
O LL 856	100-60-20	350-350-200		3639.2	P		3.30	70 LL 836	80-40-20	450	0370	R	3793	P	378		3.24
O LL 855	20-10-5	350-350-250		3639.4	D	330.3A C	1.53	70 LL 820	30-30-20	475	0371	L	3840	L	396		2.67
0 LL 851	10-10-10	350	0210 C			330.5A C	1.44	70 LL 821	40-10-10	475	0074		3841	L	396.2	K	3.48
0 LL 852 0 LL 853	30-20-10 6C-40-20	350 350	0225 G 0230 L	3639.8 3640	D	330.7A D	1.95	70 LL 822 70 LL 817	40-30-30	475 500-500-200	0374 1180	N R	3843 3935	P			3.09 3.48
0 LL 850	20-20-20	400-400-25	0230 L	3678	E		1.71	70 LL 814	10-10-10	500-300-200	0380	Ë	3952	E			1.62
0 LL 849	100-10-80	400-400-350	0896 R	3689.3	P	333.85 P	3.66	70 LL 815	30-20-20	500	0390	L	3956	Ļ			2.52
0 LL 848	40-90-50	450-150-150		3708	L	341A K	2.40	70 LL 816	40-40-10	500	0410	N	3965	W			3.03
10 LL 843	10-10-20	450-450-25	0910 C	3731	С	345.2 C	11.44								l		

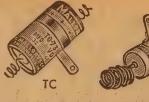
FOUR SECTION—Specify Stock Number and Manufacturer's Type Number When Ordering

			C- [SPRA	CUE	MALLO	DV I	
Stock	Cap.	DC 44	D D		TV		FP, W		NET
No.	Mfd.	A . 2 WV A	Туре	Size	Type	Size	Туре	Size	EACH
70 LL 757 70 LL 755 70 LL 749 70 LL 750 70 LL 752	50-40-160-40 60-40-20-200 30-30-30-40 40-40-30-20 80-40-30-100	150-150-25-25 150-150-150-10 150-150-150-25 150-150-150-25 150-150-150-25	0300 0210 0240	j. J	4410.7 4414 4415 4420 4430	J J J K	408 409 411A	j j	2.13 2.07 1.86 1.86 3.33
70 LL 753 70 LL 754 70 LL 760 70 LL 748 70 LL 747	80-40-40-20 80-40-40-100 250-200-10-25 40-40-40-30 100-80-60-40	150-150-150-25 150-150-150-25 150-150-150-50 150 150	0325 0330 0010 0014	J K J	4431 4434 4440 4441 4445	J K P J L	4i2A		2.13 2.25 3.21 1.98 2.79
70 LL 746 70 LL 742 70 LL 743 70 LL 761 70 LL 741	100-40-10-100 40-40-40-20 100-10-200-30 150-10-200-30 40-40-20-10	250-250-250-50 300-300-300-150 300-300-150-150 300-300-150-150 300	0360 0370 0866	N L S	4516 4575 4561 4561.3 4579	M L P P M	419.4A	Ĺ	3.09 2.94 3.54 3.75 2.73
70 LL 740 70 LL 739 70 LL 738 77 LL 736 70 LL 735	60-100-60-40 60-40-60-20 40-40-20-20 80-60-40-20 40-80-100-25	350-350-200-75 350-350-200-150 350-350-350-25 350 400-350-200-50	0430	Ĺ	4609 4621.6 4635.7 4654	M L P P	419.67A 419.66A 419.3A 420.45A	M K K	3.93 3.03 2.79 3.84 3.50
70 LL 732 70 LL 733 70 LL 731 70 LL 730 70 LL 723	80-40-10-20 80-40-30-40 40-40-40-20 20-15-20-20 10-10-10-20	400-400-400-25 400-400-400-25 450-300-300-150 450-450-25-25 450-450-450-25	0477 0478 0480	R j	4669 4670 4703.7 4712 4723	P P L J	413X 426	L J	3.18 3.57 2.94 2.07 1.89
70 LL 724 70 LL 726 70 LL 727 70 LL 727 70 LL 728 70 LL 729	20-20-20-20 40-30-10-20 40-20-20-40 40-40-10-20 40-40-40-40	450-450-450-25 450-450-450-25 450-450-450-25 450-450-450-25 450-450-450-25	0520 0640 0630 0663.2	K L L	4724.2 4734 4732 4736 4739	K M L M L	429 430.6A	L M	2.49 2.70 2.79 1.82 3.30
70 LL 722 70 LL 721 70 LL 711 70 LL 712 70 LL 713	30-30-15-30 40-40-10-100 5-5-5-5 10-10-10-10 20-10-10-10	450-450-450-50 450-450-450-100 450 450 450 450	0560 0660 0080 0090 0120	L N J K	4742 4747 4759.7 4760 4761	M J J	433.6† 434 434.5	j. J	2.73 3.33 1.80 2.01 2.22
70 LL 714 70 LL 715 70 LL 716 70 LL 717 70 LL 718	20-20-20-20 30-30-20-20 35-35-10-5 40-20-10-10 40-40-20-20	450 450 450 450 450 450	0130 0144 0150 0170 0174	L L N L R	4763 4769.4 4771 4773	L L M	444 444.8 445 447A	L L M	2.82 3.12 2.76 2.94 3.26
70 LL 719 70 LL 720 70 LL 710 70 LL 708 70 LL 707	40-40-30-30 40-40-40-40 20-40-100-80 15-15-80-40 50-30-10-20	450 450 475-300-50-25 475-475-300-50 475-475-475-300	0176 0177 0990 0840 0692	R P L L N	4774 4775 4800 4815 4827	P P L L M) 0,0,0 0,0,0 0,0,0 1,0,0,0	3.63 3.87 2.67 2.88 3.36
70 LL 704 70 LL 705 70 LL 706 70 LL 702 70 LL 700 70 LL 701	20-20-10-10 20-20-20-20 40-20-10-10 30-10-150-30 10-10-10-10 40-40-8-8	475 475 475 500-450-50-50 500 500	0179.3 0179.5 0179.7 0928 0180 0185	K L L K J N	4832 4834 4840 4917 4940 4944	K L L L P	474.5 475 476 495Å	K L L 	2.61 3.06 3.06 2.52 2.10 3.42

Make Allied headquarters for all of your electronic needs. Use this catalog as your guide to the world's largest stocks of Everything in Electronics. Take advantage of our skilled, efficient order-handling personnel and unsur-

passed facilities. High-speed conveyor belts, miles of pneumatic tubing, and newest communication and record-keeping equipment—assure you of fast, same-day shipment of all the stock items on your order. You can depend on Allied!

METAL-CASED ELECTROLYTICS





Metal, tubular dry electrolytic capacitors. A wide selection of highly dependable capacitors designed for use in radios, television receivers, hi-fiequipment, and many other general-purpose applications. Units rated up to 150 WVDC have a tolerance of -10% to +100%. Capacitors rated above 150 WVDC have a tolerance of -10% to +50%. All units have external insulating sleeves; ideal for use in crowded, compact chassis. Type TC has 3" tinned copper leads of 22 gange wire. Types TCD and TCT have 8" insulated wire leads. *Indicates non-TYPE TC SINGLE CAPACITORS

polarized type. All capacitors listed are equipped with fixed mounting straps except TC types smaller than ¹%^e in diameter. All units have an operating range of up to 85°C. except TC types 81, 83 and 84, which have an operating range to 65°C. Av. shpg. wt., 4 oz.

TCD

TYPE TC SINGLE CAPACITORS

ITPE	: 10 :	MAGE	ECAP	ACHORS	
Stock No.	Туре	Mfd	WVDC	Size	NET
18 L 804 17 L 549 17 L 463 17 L 461 17 L 462	304 305 310 605 610	200 500 1000 500 1000	- 3 -3 -3 -6 -6	11/16×1 1/4" 111/16×1 1/2" 15/16×1 3/4" 13/16×1 3/4" 115/16×2"	.69 .84 1.02 .93 1.14
17 L 642 17 L 460 17 L 209 17 L 600 17 L 601	1502 1505 1501 22 26	200 500 1000 10 25	15 15 15 25 25	13/16×11/2" 15/16×2" 11/16×21/4" 7/16×3/4"	.84 1.05 1.38 .60
17 L 602 17 L 500 19 L 933 17 L 466 19 L 932	29 2501 25015 2505 31	50 100 150 500 1	25 25 25 25 25 50	9/16×1 1/2" 11/16×1 3/4" 11/16×1 3/4" 11/16×2 1/4" 1/4×11/16"	.66 .81 .87 1.38
17 L 639 17 L 623 17 L 603 17 L 604 17 L 605	302 30 32 36 39	2 5 10 25 50	50 50 50 50 50	5/ ₁₆ x ³ / ₄ " 5/ ₁₆ x ⁷ / ₈ " ⁷ / ₁₆ x ³ / ₄ " ¹¹ / ₁₆ x1 ¹ / ₄ " ¹³ / ₁₆ x1 ¹ / ₄ "	.54 .60 .60 .63 .72
17 L 641 18 L 342 17 L 458 17 L 624 17 L 459	3501 50025 40 41 42	100 250 5 8 10	50 50 150 150 150	11/6×1 3/4" 15/16×1 3/4" 7/16×7/8" 7/16×1" 7/16×1 1/4"	.84 1.05 .60 .63
17 L 608 17 L 502 17 L 610 17 L 611 17 L 504	44 45 47 48 49	16 20 30 40 50	150 150 150 150 150	11/ ₁₆ ×1 ½" 13/ ₁₆ ×1 ½" 13/ ₁₆ ×1 ½" 15/ ₁₆ ×1 ¾" 15/ ₁₆ ×1 ¾"	.69 .72 .78 .81
17 L 640 18 L 802 17 L 242 17 L 519 19 L 931	492 493 495 496 499	80 100 150 200 300	150 150 150 150 150	15/6×2" 11/6×21/4" 11/6×21/4" 11/6×27/8" 17/6×3"	.96 1.05 1.14 1.58 1.53
17 L 626 17 L 627 17 L 457 19 L 930 17 L 629	50X 51 52 53 54	5 8 10 12 16	250 250 250 250 250 250	11/ ₁₆ ×1 1/4" 11/ ₁₆ ×1 3/4" 11/ ₁₆ ×1 3/4" 13/ ₁₆ ×1 3/4" 13/ ₁₆ ×1 3/4"	.63 .69 .72 .75
17 L 505 17 L 633 17 L 243 17 L 249 19 L 927	55 58 59 1265 595	20 40 50 100 2	250 250 250 250 250 350	13/6×13/4" 11/6×13/4" 11/6×13/4" 11/6×27/8" 7/6×11/2"	.81 .93 1.02 1.47 1.26
17 L 634 17 L 635 17 L 455	60 61 62	5 8 10	350 350 350	11/16X1 3/4" 13/16X1 3/4" 13/16X1 3/4"	.63 .72 .75

TYPE TC SINGLE CAPACITORS (Cont'd)

Stock No.	Туре	Mfd	WVDC	Size	NET
17 L 456	65	20	350	15/16x1 3/4"	.87
17 L 244	68	60	350	1 1/16 x 2 1/4"	1.17
18 L 801	69 695	100	350 450	11/16x4" 11/16x11/2"	1.86
17 L 452	70	5	450	11/6X1 3/4"	.66 .72
17 L 619	71	8	450	13/6×13/4"	.75
17 L 620	72	10	450	18/6×1 3/4"	.78
17 L 638	73	12	450	15/16×1 3/4"	.81
17 L 622	74	16	450	15/16×1 3/4"	.84
17 L 453	75	_ 20	450	1 1/16x1 3/4"	.93
17 L 454	77	30	450	11/16×21/4"	1.02
17 L 508	78	40	450	1 1/6 x 2 1/4"	1.08
19 L 925	79 795	50 60	450 450	1½6x2½″ 1½6x2½″	1.26 1.38
17 L 204	80	80	450	1 1/6x4"	1.68
19 L 926	805	100	450	17/16×3"	1.92
17 L 245	81	10	500	15/16X3"	.81
19 L 924	82	10	5 00	1½16×3"	1.62
17 L 246	83	20	500	1 1/6x1 3/4"	.96
17 L 247	84	30	500	1 1/16x2 1/4"	1.05
17 L 450	92	10	600	11/ ₆ x2 ⁷ / ₈ "	1.77

TCD COMMON-NEGATIVE DUALS

18 L 0811	*16	500-		1 7	1
		100	16	15/16X2"	.78
17 L 479	26	25-25	25	15/16×13/4"	.84
17 L 503	45	20-20	150	15/16×13/4"	.99
17 L 477	47	30-30	150	15/16×13/4"	11.11
17 L 480	485	40-20	150	15/16×13/4"	1.05
17 L 478	48	40-40	150	11/16x2"	1.11
17 L 482	497	50-30	150	15/16×2"	1.17
17 L 481	49	50-50	150	11/16x21/4"	1.26
18 L 344	498	80-50	150	11/16x23/4"	1.41
17 L 475	52	10-10	250	15/16×2"	.99
17 L 476	55	20-20	250	17/16x2"	1.11
17 L 474	.65	20-20	350	11/16x23/8"	1.35
17 L 507	72	10-10	450	1½6x2"	1.11
17 L 472	7.5	20-20	450	11/16x31/16"	1.50
17 L 468	78	40-40	450	1½6x4"	2.04

TCT TRIPLE COMMON NEGATIVE

18 L 371	3107	50-30	150		
		20	150	1 1/16x2 1/4"	1.4
18 L 374	3114	40-20	150		
		20	150	1 1/16x2 1/4"	1.35
18 L 376	3116	40-40	150		
12 - 3 - 1	1.1	. 20	150	11/6x21/4"	1.4
18 L 375	3115	40-40	150	1. 1. 2	
1	3. 1	40	150	1 1/6x21/4"	1.47

PVC "MYLARS"

"Mylar" capacitors featuring encapsulation in flexible, moisture-proof blue polyvinyl chloride casings. Ideal for limited space and printed circuit use. Have excellent low drift characteristics; highly recommended for circuits requiring high reliability and moistus resistance. Casing is resistant to soldering in heat. Temperature range: -40° to +105° C tolerance: ±10%. Av. shpg. wt., 2 oz.

28 L 832	tolerance:	±10	%. A	v. sh	pg. wt., 2 oz.	
28 L 837 1025			Mfd	VDC		EAC
28 L 837 1025	28 L 832 28 L 833 28 L 834 28 L 835 28 L 836	1133 114 1147	.033 .04 .047	100 100 100	3/16X3/8 X ²³ /32" 23/32 X ²⁵ /64 X 1 3/64" 7/32 X 1 3/32 X ²⁵ /32"	.2
28 L 844 2 211 0.1 200 3/6x3/6x23/2" 28 L 844 212 0.2 200 3/6x3/6x23/2" 28 L 844 212 0.02 200 3/6x3/6x23/2" 28 L 845 2133 0.33 200 3/6x3/6x23/2" 28 L 847 2011 0.0 200 3/6x3/6x23/2" 28 L 847 2011 0.0 200 3/6x3/6x23/2" 28 L 848 2015 1.5 200 3/6x3/6x23/2" 28 L 849 2025 2.5 200 20 3/6x3/6x23/2" 28 L 850 2033 .33 200 13/6x3/6x13/6z" 28 L 851 205 .5 200 15/6x3/3/6x111/5z" 28 L 851 205 .5 200 15/6x3/3/6x111/5z" 28 L 853 22 1.0 200 3/6x3/6x11/5z" 28 L 854 4222 0.0022 400 11/6x423/6x123/2" 28 L 855 4417 .0047 400 3/6x3/6x23/6z" 28 L 855 4411 .01 400 3/6x3/6x23/6z" 28 L 855 4411 .01 400 3/6x3/6x23/6z" 28 L 856 411 .01 400 1/6x3/6x3/6x23/6z" 28 L 866 621 .001 600 11/6x23/6x3/6x3/2" 28 L 866 622 .002 600 11/6x23/6x3/6x3/2" 28 L 866 623 .003 600 11/6x23/6x3/6x3/2" 28 L 867 625 .005 600 3/6x3/6x3/3z" 28 L 869 625 .005 600 3/6x3/6x3/2" 28 L 870 625 .005 600 3/6x3/6x3/2" 22 28 L 870 615 .05 600 3/6x3/6x3/2" 22 28 L 870 615 .05 600 3/6x3/6x3/2" 22 28 L 885 6025 .25 600 3/6x3/6x3/2" 22 28 L 885 6025 .25 600 3/6x3/6x3/23/2" 22 28 L 885 6025 .25 600 3/6x3/6x3/23/2" 22 28 L 885 6025 .25 600 3/6x3/3/6x13/3z" 22 28 L 8	28 L 837 28 L 838 28 L 839 28 L 840	1025 105 11 11P5	.25 .5 1.0 1.5	100 100 100 100	11/ ₃₂ x ³ 5/ ₆₄ x1 ³ / ₃₂ " 13/ ₃₂ x ³ 9/ ₆₄ x1 ¹ 1/ ₃₂ " 1/ ₂ x ² 3/ ₃₂ x1 ¹ 9/ ₃₂ " 19/ ₃₂ x5 ³ / ₆₄ x1 ² 3/ ₃₂ "	.3.5.7.9
28 L 847 2015	28 L 842 28 L 843 28 L 844 28 L 845	211 2115 212 2133	.01 .015 .02 .033	200 200 200 200	3/16 X3/8 X2 3/32" 3/16 X3/8 X2 3/32" 3/16 X3/8 X2 3/32" 7/32 X2 7/64 X2 7/32"	.2
28 L 852 21	28 L 847 28 L 848 28 L 849 28 L 850 28 L 851	201 2015 2025 2033	.10 .15 .25 .33	200 200 200 200 200	9/32 x 3 1/64 x 1 3/32" 2 1/64 x 1 7/32 x 1 7/32" 3/8 x 3 7/64 x 1 1 1/32" 1 3/32 x 3 9/64 x 1 1 5/32"	20.00.04
28 L 857 412 .05 400 7/52×27/64×27/32" 28 L 859 401 .10 400 11/32×375/64×17/32" 28 L 860 4025 .25 400 7/68×1/32/32" 28 L 861 405 .5 400 37/64×13/64×12/32" 28 L 863 622 .002 600 11/64×23/64×23/32" 28 L 866 6233 .003 600 11/64×23/64×23/32" 28 L 868 6247 .004 600 3/66×3/8×23/32" 28 L 869 625 .005 600 3/66×3/8×23/32" 28 L 870 625 .005 600 3/66×3/8×23/32" 28 L 877 613 .03 600 13/64×3/64×3/32" 28 L 877 613 .03 600 13/64×3/64×3/32" 28 L 878 614 .04 600 5/66×3/44×3/32" 28 L 878 614 .04 600 5/66×3/44×3/32" 28 L 888 615 .05 600 22/64×3/64×3/32" 28 L 888 6022 .22 600 3/62×3/64×3/64×3/32" 28 L 888 6022 .22 600 3/62×3/64×3/64×3/32" 28 L 888 6022 .22 600 3/62×3/64×3/64×3/32" 28 L 888 6025 .25 600 3/62×3/64×3/64×3/64×3/24" 3/2" 28 L 888 6025 .25 600 3/62×3/64×3/64×3/24" 3/2" 3/2 28 L 888 6025 .25 600 3/62×3/64×3/64×3/64×3/24" 3/2" 3/2 28 L 888 6025 .25 600 3/62×3/64×3/64×3/2		21 22 4222 4247	1.0 2.0 .0022 .0047	200 200 400 400	5/8 x55/64x123/32" 7/8 x13/32x123/32" 11/64x23/64x23/32" 3/16x3/8 x23/32"	1.22
28 L 862 621 .001 600 11/64x23/64x23/32" 22 L 864 6222 .0022 600 11/64x23/64x23/32" 22 L 865 623 .003 600 11/64x23/64x23/32" 22 L 866 6233 .0033 600 11/64x23/64x23/32" 22 L 866 6233 .0033 600 11/64x23/64x23/32" 22 L 866 624 .004 600 3/6x3/8x23/32" 22 L 866 624 .004 600 3/6x3/8x23/32" 22 L 873 625 .005 600 3/6x3/8x23/32" 22 L 873 615 .005 600 3/6x3/8x23/32" 22 L 873 615 .015 600 13/6x3/8x23/32" 22 L 873 612 .022 600 17/6x3/32/32" 22 L 873 613 .033 600 9/32x3/6x13/32" 22 L 878 614 .04 600 5/6x3/31/32" 22 L 888 615 .05 600 9/32x3/6x13/32" 22 L 888 615 .05 600 12/6x3/37/6x13/32" 22 L 888 6012 .20 600 1/6x2/33/6x13/32" 22 L 888 6012 .20 600 1/6x2/33/6x13/32" 22 L 888 6012 .20 600 1/6x2/33/6x13/32" 22 L 888 6015 .05 600 12/6x3/37/6x13/32" 22 L	28 L 857 28 L 858 28 L 859 28 L 860	415 401 4025	.02 .05 .10 .25	400 400 400 400	7/ ₃₂ x ² 7/ ₆₄ x ² 7/ ₃₂ " 5/ ₁₆ x ¹ / ₂ x ³ 1/ ₃₂ " 1 1/ ₃₂ x ³ 5/ ₆₄ x1 7/ ₃₂ " 7/ ₁₆ x ² 1/ ₃₂ x1 9/ ₃₂ "	.22.34.6
28 L 867 624 .004 600 3/68/\$\frac{3}{4}\frac{2}{3}\frac{2}{2}\frac{2}\frac{2}{2}\frac{2}{2}\frac{2}\frac{2}{2}\frac{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\fr	28 L 862 28 L 863 28 L 864	621 622 6222 623	.001 .002 .0022 .003	600 600 600	11/64X ²³ /64X ²³ /32" 11/64X ²³ /64X ²³ /32" 11/64X ²³ /64X ²³ /32" 11/64X ²³ /64X ²³ /32"	.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 L 867 28 L 868 28 L 869 28 L 870	624 6247 625 626	.004 .0047 .005 .006	600 600 600	3/16X3/8 X2 3/32" 3/16X3/8 X2 3/32" 3/16X3/8 X2 3/32" 3/16X3/8 X2 3/32"	.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 L 872 28 L 873 28 L 874 28 L 875 28 L 875	6115 612 6122	.01 .015 .02 .022	600 600 600	13/64X ²⁵ /64X ²⁷ /32" 1/4 X ⁷ /16X ² 7/32" 1/4 X ⁷ /16X ³ 1/32" 17/64X ¹⁵ /32X ³ 1/32"	.22.22
28 L 882 601 .10 600 25/44X19/32X111/32" 28 L 883 602 .20 600 1/2 x23/32X11/32" 28 L 884 6022 .22 600 1/2 x23/32X123/32" 28 L 885 6025 .25 600 33/44X47/44X123/32" 28 L 886 6033 .33 600 19/42X53/44X123/32" 28 L 887 6047 .47 600 23/32X31/32X123/32" .60	28 L 877 28 L 878 28 L 879 28 L 880 28 L 881	614 6147 615	.04 .047 .05 .068	600 600 600	5/16 x 1/2 x 1 3/32" 1 1/32 x 3 5/64 x 1 3/32" 2 1/64 x 1 7/32 x 1 7/32"	.22.23
28 L 887 5047 .47 500 23/32X3 1/32X123/32" .8	28 L 882 28 L 883 28 L 884 28 L 885 28 L 885	602 6022 6025 6033	.20 .22 .25 .33	600 600 600	1/2 x 2 3/32 x 1 1 9/32 " 1/2 x 2 3/32 x 1 2 3/32 " 3 3/64 x 4 7/64 x 1 2 3/32 " 1 9/32 x 5 3/64 x 1 2 3/32 "	355560
	28 L 887	604/	.4/	600	23/32X3 1/32X1 23/32"	.8

GEM MOLDED TUBULAR PAPER CAPA 600 VOLTS DC WORKING (Cont'd)



19 L 929

350 15/16x13/4" 84

General-purpose molded tubular paper capacitors manutured to extend to bakelite cases and resin sealing effectively prevent the entry of moisture and protect units against mechanical shock. All have double-tinned copperweld leads. All types from .001 mfd through .1 mfd @ 600 WVDC have "diafilm" paper-mylar dielectric. Temperature range: -40° to +85°C. Capacity tolerance: 20% except *10%. Av. shpg. wt., 5 oz.

600 VOLTS DC WORKING

S tock No.	Type	Mfd	Size	EACH
18 L 546	621	.001	5/16×1"	.15
18 L 547	6215	.0015	5/16×1"	
18 L 548	622	.002	5/16×1"	
18 L 549	6222	.0022	5/16×1"	
18 L 550	6225	.0025	5/16×1"	
18 L 551 18 L 552 18 L 553 18 L 554 18 L 555 18 L 556	623 6233 624 6247 625 626	.003 .0033 .004 .0047 .005	5/16×1" 5/16×1" 5/16×1" 5/16×1" 5/16×1" 3/8×11/4"	.15
18 L 557	6268	.0068	3/8 × 1 1/4"	.18
18 L 559	628	.008	3/8 × 1 1/4"	
18 L 560	6282	.0082	3/8 × 1 1/4"	
18 L 561	611	.01	3/8 × 1 1/4"	
18 L 562	6112	.012	3/8 × 1 1/4"	

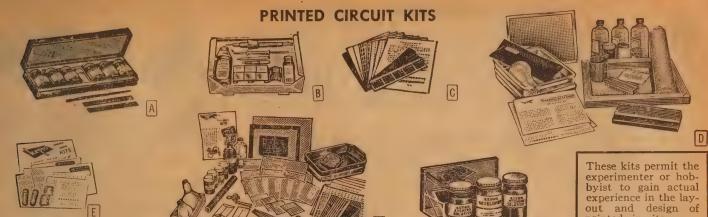
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Stock No.	Туре	Mfd	Size	EACH		
18 L 563	6115	.015	3/8 x 1 1/4"	.18		
18 L 564	612	.02	7/16 x 1 1/4"			
18 L 565	6122	.022	7/16 x 1 1/4"			
18 L 566	6125	.025	7/16×1 1/4"	.21		
18 L 567	613	.03	7/16×1 1/4"			
18 L 568	6133	.033	1/2×1 1/2"			
18 L 569	614	.04	1/2×1 1/2"			
18 L 570	6147	.047	1/2 x1 1/2"	.24		
18 L 571	615	.05	1/2 x1 1/2"			
18 L 572	6156	.056	5/8 x1 7/8"			
18 L 573	616	.06	5/8 x1 7/8"			
18 L 574	6168	.068	5/8 x17/8"	.27		
18 L 575	601	.1	5/8 x17/8"	.27		
18 L 576	6015*	.15	5/8 x17/8"	.30		
18 L 577	602*	.2	3/4 x 2 1/4"	.42		
18 L 578	6022*	.22	3/4 x 2 1/4"			
18 L 579	6025*	.25	3/4 x 2 1/4"			
18 L 582 18 L 583 15 L 584 18 L 585	6047* 605* 6068* 61*	.47 .5 .68 1.0	1x2 ³ / ₈ " 1x2 ³ / ₈ " 1x2 ⁵ / ₈ " 1x2 ⁵ / ₈ "	.48 .48 .48		
1600 VOLTS DC WORKING						
18 L 387	1621*	.001	3/8 x 1 1/4"	.39		
18 L 388	1622*	.002	3/8 x 1 1/4"			
18 L 747	1623*	.003	7/16 x 1 1/4"			
18 L 749	1624*	.0047	1/2 x 1 1/2"			
18 L 750	16247*	.0047	1/2×1 1/2"	39		

18 L 751 | 1625* | 18 L 753 | 1626* |

٧,	CITORS 1600 V	OLTS DO	WORK	(ING (Con	1'd)		
	Stock No.	Туре	Mfd	Size	EAC		
	18 L 755 18 L 757	1627* 1628*	.007	1/2 x1 1/2" 1/2 x1 1/2"	.39		
	18 L 758 18 L 759 18 L 761	16282* 1611* 1612*	.0082 .01 .02	1/2 x1 1/2" 1/2 x1 1/2" 5/8 x1 7/8"	.39 .42 .36		
	18 L 325 18 L 385	16122* 1613*	.022	5/8 x 1 7/8" 5/8 x 1 7/8"	.45		
	18 L 386 18 L 762	1614* 1615*	.04	3/4×21/4" 3/8×21/4"	.42		
	3000 VOLTS DC WORKING						
	18 L 968 18 L 969	3021 3023	.001	7/16X1 1/4" 1/2 X1 1/2"	.66		
	18 L 970 18 L 971	3025 3011	.005	5/8 x 1 7/8" 5/8 x 1 7/8"	.69		
	18 L 972 18 L 973	3013 3015	.03 .05	1x2½" 1x2¾"	.84		

18 L 971 18 L 972 18 L 973	3011 3013 3015	.01 .03 .05	1x2½" 1x2½" 1x2¾"	.84
60	00 VOLT	IS DC V	VORKING	
18 L 976 18 L 978 18 L 980	6X22 6X25 6X11	.002 .005 .01	5/8 x 1 7/8" 3/4 x 2 1/4" 1 x 2 3/8"	1.1
10,0	DOO VOL	TS DC	WORKING	
18 L 950	10035	.0005	5/8 x 17/8"	.9
12,	500 VOI	TS DC	WORKING	
18 L 324	125325	.00025	5/8×17/8"	1.3
15,0	100 VOI	TS DC	WORKING	
18 L 954	15035	1 .0005	1 7/8 x 2 1/2"	2.0

Printed Circuit Kits and Capacitor Hardware



Micro-Circuits S21 Kit. Lets you create all types of miniature-sized electronic equipent. Make resistors, capacitors, connecting ires and many other components. Kit also lows you to paint your own radio circuit and ake repairs on printed circuits. Includes: rush; silver-conducting paint; low, medium, gh and very high resistance paints; insulating equer; solvent; brush cleaner; the manual, Design and Repair of Printed Circuits," us other literature. Wt., 13/4 lbs.

G-C Electronics 683 Repair Kit. You'll be able to save time and minimize replacement of printed circuit components with this andy repair kit. Permits quick repair jobs on sistors, capacitors, coils, wiring, sockets, lugs, pper foil, etc.—a valuable service aid. Induces: foil; solder washers; solder; "solderuse" tool for tightening contacts, etc.; fiberas brush; 6 oz. spray can of silicone resin cquer; solvent for removing solder; tweezers; ngar soldering iron; instructions. 7x12½x½". Shpg. wt., 1 lb. I L 138. List, \$13.95..... NET 9.31

Kepro Model PL-2A Photo Layout Kit. Ends the necessity of inking and lettering was of mechanical negative materials and ressure sensitive tapes, dots, letters, and numals. Layout time required is less than half of nat needed for conventional methods. Errors artwork are easily corrected without destroyer original work. Materials may be used directly as negative. Contents: One card each of was a taped to sense the sense of the sense

New Kepro SC-601 Photo Screen Kit.

Kepro NP-303A Enamel Nameplate and Panel Kit. Produces permanent, blue enamel and natural aluminum nameplates in a simple, 4-minute process. Includes 2 sheets of 8x10x.007" sensitized enamel plate, accessories. Wt., 1 lb.

NP-404 MATERIALS

Stock No.	Type	Description	Size	NET	
		Anod. Alum. Plate	3x6"	.75	
				4.90	
		Developer		1.15	
11 L 135	NP-E	Etching Powder	1 pkg.	.40	
NID COOR A MATERIALS					

	8X10"	./0
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Wepro L-505A Printed Circuit Lab.
Used for a wider range of P.C. board requirements—from prototypes through short production runs. Kit contains: 15 assorted photosensitized, copper-clad phenolic XXXP boards; 4 unsensitized boards; developing and etching trays; safelight; photoflood lamp, printing frame; PL-2A layout kit; mechanical negative; etching and developing solution; paint resist and thinner; plastic and aluminum trays; eyelet assortment; cleaning pad; instructions plus descriptive literature. Heavy-duty processing equipment—handles boards to 70 sq. inches. Shpg. wt., 20 lbs.

IL LU 105.

NET 34.75

printed circuits.

Kepro S-101A Standard Etching Kit. (Not Kepro S-101A Standard Etching Kit. (Not illus.) An economy etching kit designed to use in the development of a circuit pattern. Ideal for the beginner or for bread-boarding use by engineers. Contains: 3 unsensitized copperclad phenolic boards; 1 bottle etching resist.; 1 package assorted tapes and dots; 1 brush; 1 cleaning pad; 1 bottle etching solution; and easy-to-follow instructions. Wt., 1½ lbs. 3.95

KEPRO PRINTED CIRCUIT MATERIALS

A selection of quality printed circuit materials either for replacement use in Kepro PC kits or for those currently engaged in printed circuit development. Have .00135° thick copper coating. All sheets have foil on both sides, except *which have coating on one side only. Av. shpg. wt. of sheets, 3 oz.; 2 oz. solutions, 6 oz.; pint solutions, 3 lbs.

XXXP 1/6" PHENOLIC SHEETS

Stock No.	Mfr's Type	Description	Size	NET EACH
II L 649 II L 655 II L 131 II L 149 II L 656	P1-1212 P2-1212 P1-36PB P2-36PB S1-33 S1-36	Unsensitized* Unsensitized Perf. Unsen.* Perf. Unsen. Light sensitive* Light sensitive*	12x12" 12x12" 3x6" 3x6" 3x3" 3x6" 6x6"	2.48 3.26 .62 .95 .56 .86
11 L 658	S1-66 S1-1212	Light sensitive* Light sensitive*	12x12"	5.08
L 660 L 661 L 662 L 663 L 664 L 665	\$1-710 \$2-33 \$2-36 \$2-66 \$2-1212 \$2-710	Light sensitive* Light sensitive Light sensitive Light sensitive Light sensitive Light sensitive	7x10" 3x3" 3x6" 6x6" 12x12" 7x10"	2.63 .73 1.18 2.11 7.43 3.85

G-10 1/16" GLASS EPOXY SHEETS

	,			
11 L 666	P1-1212G	Unsensitized*	12x12"	6.74
11 L 667	P2-1212G	Unsensitized	2x12"	7.14
11 L 668	S1-33G	Light sensitive*	3x3"	.80
11L669	\$1-36G	Light sensitive*	3x6"	1.52
11 L 670	S1-1212G	Light sensitive*	12x12"	10.24
11 L 671	S2-33G	Light sensitive	3x3"	1.06
11 L 672	S2-36G	Light sensitive	3x6"	1.84
11 L 673	S2-1212G	Light sensitive	12x12"	12.84

CHEMICALS

	ON S CONTAGE ON A CONTAGE	
IIL 674 R-2 IIL 675 T-2 IIL 675 D-1PT IIL 676 D-1G IIL 677 E-1PT	Resist thinner Developing sol. Developing Sol.	2 oz. 2 oz. 50 Pint 1.15 Gal. 5.00 Pint 85 Gai. 3.00

MALLORY CAPACITOR HARDWARE



Type FP or WP capacitors use MP, BP, PS and MW-100 units listed in tables below. For Type TC, FP, WP and other tubular capacitors use VR brackets for vertical mounting, or TH spring clips where horizontal mounting is required. *Metal. †Phenolic. Av. shpg. wt., 3 oz.

						. 8	mpg.	W.L., J 02.	
tock No.	Туре	Fig.	Size	Pkg. of 3	Stock No.	Туре	Fig.	Size	EACH
8 L 4 1 4	MP-2	H*	3/4"		17 L 531	PS-4	L	1"	.42
8 L 4 1 5	MP-4	H*	1"		17 L 532	PS-6	L	13/8"	.54
8 L 4 6	MP-6 BP-2	H*	13/8"	.09	17 L 402	VR-1		1 to 11/16"	.09
8 L 4 7 8 L 4 8	BP-4	1 4	1/4	.07	17 L 413	VR-3	M	13/8 to 17/16"	.09
	BP-6	1+	13/4"		17 L 414	VR-4	M	1 1/2 to 19/16"	.12
8 L 419	TH-13	K	13/8"	,	17 L 415	VR-6	M	13/4 to 113/15"	.15
8 L 421	TH-15	K	1/2 to9/16"	00		VR-8		2 to 21/16"	.18
8.L 422		K	5/8 to 11/16"	.09		TH-25		13/8 to 17/16"	.06
8 L 423	TH-19	K	3/4 to 13/16"			MW-100		Mtg. Wrench	
8 L 424	TH-21		7/8 to 15/16"		D 4 4 1 / 4 4 1 /	<u></u>			1.05

stock No. Type	Size	EACH	Stock No.	Туре	Size	EACH
17 L 511 CE-3 17 L 512 CE-4 17 L 514 CE-6	1x3"	.06	17 L 515 17 L 517 17 L 518	CE-9	13/8×21/2"	.06 .06 .09

Centralab Capacitors and Printed Circuits.

TC TEMPERATURE-COMPENSATING CAPACITORS

Employ special coating to minimize time lag between temperature change and capacity compensation. Comply with JAN-C-20A specs. TCZ is NPO: capacity constant from -20 to +85°C. TCN has negative coefficient of 750 parts/million/°C. A variety of other coefficients may be obtained by connecting both types of capacitors in parallel. All units listed are rated 600 working volts DC. Av. shpg. wt., 2 oz.

TC CAPACITOR SIZES

TYP	E TON	TYPE TCZ		
Cap. Mmf	Size	Cap. Mmf	Size	
3.3 to 100 110 to 200	13/64X13/32" 13/64X11/16" 15/64X1/8"	0.5 to 39 43 to 82	13/64X13/32" 13/64X11/16"	
220 to 270 300 to 560 620 to 750	15/64X ⁷ 8" 9/32X1 ¹ 1/64" 9/32X1 ⁵ 8"	91 to 100 110 to 220 240 to 300	15/64X1/8" 9/32X111/64" 9/32X15/8"	

Av. snpg. wt., z oz.				
TYPE TCN (N750)				
Stock No.	Mmf	EACH		
L 24 L 250 L 25 L 25 L 25	5 10 12 15 18	.30		
L 254 L 255 L 494 L 257 L 258	20 22 25 27 30	.30		
II L 259 II L 261 II L 263 II L 495 II L 264	33 39 47 50 51	.30		
L 265 L 267 L 269 L 271 L 273	56 68 82 100 120	.30		
L 275 L 276 L 277 L 278 L 280	150 160 180 200 240	.30		
II L 282	. 300	.45		
	WA 055			

TIPE ICIN (Cont a)					
Stock No.	Mmf	EACH			
L 283 L 284 L 285 L 287 L 288	330 360 390 470 510	.45			
L 289 L 290 L 291 L 292	560 620 680 750	.60			
TYPE TCZ (NPO-ZERO)					
Stock No.	Mmf	EACH			
Stock No. L 200 L 201 L 202 L 203 L 204	.5 .68 1.0 1.5 2.2	.30			

TYPE TCZ (Cont'd)					
Stock No	. Mmf	EACH			
L 2 L 2 L 492 L 2		.30			
L 2 7	39 43 47	.30			
L 222 L 223 L 225 L 226	51 56 68 75 82	.30			
L 229 L 239 L 231 L 232 L 233	100	.45			
L 235 L 236 L 237 L 238 L 239 L 240	220 240 270	.45 .45 .45 .60 .60			

PACKAGED ELECTRONIC CIRCUITS (PEC)



Complete, printed electronic circuits—with resistors, capacitors, and in some cases, inductors. Ideal for the replacement of entire circuit sections in radio and TV sets. The printed-circuit wiring and all components are bound to a ceramic base and sealed against moisture, temperature change and physical shock. These dependable sub-assemblies are widely used in original equipment applications—especially in TV chassis. Excellent for use by experimenters and those engaged in new design. Offer space-saving features of miniaturization as well as circuit stability at very low cost. All types listed are standard throughout the electronics industry, always stocked, easily replaced. Designed for quick mounting. Av. shpg. wt., 2 oz.

18 L 893, PC-6 Packaged Electronic Cir-cuit Guide, Contains complete data, NO CHARGE ON REQUEST.

No.	Type	Description	NET
L 50 L 51 L 52	PC-50 PC-51 PC-70 PC-71 PC-80	Diode Load Filter Diode Load Filter Triode Couplate Triode Couplate Triode Couplate	.60
L 65 L 54 L 55	PC-81 PC-84 PC-90 PC-91 PC-92	Triode Couplate Triode Couplate Pentode Couplate Pentode Couplate Pentode Couplate	.60 .90 .90
L 57 L 356	PC-101 PC-104	Vertical Integrator Vertical Integrator Vertical Integrator Vertical Integrator Vertical Integrator	.75 1.05 .75 .75
I L 158	PC-150	TV IF Filter Audio/Det Couplate Audio/Det Couplate Audio/Det Couplate Audio/Det Couplate	.90 .90
L 361 L 362 L L 171 L 172	PC-158 PC-159 PC-160 PC-165	Audio/Det Couplate Audio/Det Couplate Pentode/Det Couplate Pentode/Det Couplate Sync Takeoff Couplate	.90 1.20 1.20
8 L 901	PC-314 PC-327	Sync Takeoff Couplate Sync Takeoff Couplate Retrace Suppression Pentode/Det Couplate Audio/Det Couplate	.75
11 L 355	PC-378 PC-387	Sync Coupling Net Vertical Integrator Tone Control Network IF De-Coupling Net Integrator Network	1.05

CERAMIC CAPACITOR KITS



.30

DDK-200

D6K-200 Ceramic Capacitor Kit. In assorted sizes—includes 200 Type D6 BC tubular ceramic capacitors (see facing page) in 1-drawer steel cabinet—values from 5 to 10,000 mmf, 5 of each included, except 10 or 15 each of the most popular values. Cabinet size, 4x6x11". Shpg. wt., 6.1bs.

TCK-80 TC Ceramic Capacitor Kit. Con-

PEC KIT IN CABINET

PRINTED CIRCUIT BOOK

PRINTED CIRCUITS. By Morris Moses (Gernsback). Thoroughly covers printed circuits and miniature equipment. Chapters include: Techniques And Materials; Repair Of Printed-Circuit And Subminiature Assemblies. Illustrated. 224 pages. 5½x8½°. K 279. Postpaid in U.S.A. 2.90

CERAMIC-DIELECTRIC TRIMMERS







Compact, stable trimmer capact tors with ceramic dielectric. Light weight, easily mounted. Screw driver adjustment. Provide smooth, linear rate of change Full capacity range with 186 age rotation. Balanced rotor an heavy spring pressure for excellent mechanical stability, evenueder conditions of heavy vibration. Silver fired to stator and rotor, which make contact of flat optically ground surface to eliminate a space. All types rated at 500 WVDC. Power factor: less than ±0.2% at 1 mc. Types 82 have ceramic base, 822 and 823 steatite base 827 phenolic base, 829 are tubular cerami (with mounting screw and nut). 820-E is less bracket. Letter N in Type No. indicates negative temperature coefficient, letter Z in typ No. indicates zero temperature coefficient. *Body length. Av. shpg. wt., 1 oz.

TYPES 820 AND 822

Stock No.		Mfr's Type	Mmf Range	Base Size	NET
L 38	34	820-B 820-C 820-E	5-20 7-35 35-55	5/8×27/32"	.78
L 65	51 25 24	822-DN 822-EN 822-CN 822-BN 822-AN	2-6 4-30 4.5-25 7-45 8-50	27/32X41/648	1.03
L 2 L 2 L 6		822-EZ 822-CZ 822-BZ 822-FZ 822-AZ	1.5-7 2-7.5 2.5-13 3-12 4.5-25	²⁷ / ₃₂ × ⁴ / ₆₄ *	1.05

TYPES 823, 827 AND 829

Stock No.	Mfr's Type	Mmf Range	Base Size	NET
	823-AN 823-AZ	20-125 12-62	15/16×19/32"	3.60
L 5 6 L 5 7 L 5 8 L 5 9	827-B 827-C	2.5-7 3.5-12 6-30 7-35	17/ ₃₂ x3/4"	.75
L 402	829-3 829-4 829-6 829-7 829-10	.5-3 1-4 1-6 1-7.5 1.5-10	*1/2# *1/2# *5/8# *3/4# *3/4#	.30

4-STAGE PACKAGED AMPLIFIER



An ultra-miniature, 4-stage transistorized, high-gain, audit amplifier. Has 78 db gain @ kc; 30 db S/N ratio with 25 winput. Freq. resp., ±5 db 30 cycles-20,000 cycles. Power up to .5 mw into 1000 ohms impedance @ 1 kc. Input impedance 2500 ohms. Powered by 1.34-v mercury battery at approx 2 ma Recommended control: 25K ohms with audit taper. Thoroughly sealed to prevent any kind of damage. Body size is \(^{1}\frac{1}{2}\chi^{2}\text{ dia.x}\/\frac{1}{4}\chi^{2}\text{ Less battery and control. Shpg. wt., 4 oz.}\)

HI-VO-KAP UNIVERSAL CAPACITOR



Type TV-207. High-voltage TV-20 ceramic capacitor with set of 7 attachable terminals. Ideal for service with a minimum of inventory. Capacitance to mind the service working volts DC; 35,000 volts test. Molded plastic insulation, "High-K" ceramic insulation and rugged, threaded-hole terminal studs Tolerance: -20% to +50%. Size, 1" dia. 11." Shpg. wit., 5 oz. 11 L 016. NET.

TVK-5-50. Handy serviceman's kit of Hi-Vo Kap capacitors and attachable terminals in hinged clear plastic box with six compartments Each kit contains 5 TV-20 high-voltage capacitors, and 10 of each of the above pictured at tachable terminals. Covers practically all types that may be needed with minimum inventory Shpg. wt., 1 lb.

Centralab Ceramic Capacitors

LOW-VOLTAGE CAPACITORS



tremely compact, high-capacity, low-voltage amic capacitors. Have durable "Durez" in insulation. Designed especially for transcription or circuits and other subministure applicions. Resist effects of heat, moisture and tration. Av. shpg. wt., 2 oz.

pe DA: ½x½x¾6" thick. Tolerance -20% +100%. Rated to 30 WVDC.

pe DDA: \%" diameter x \%2" thick. Tolerance 30% to +80%. Rated at 75 WVDC.

to DM: $\frac{17_{32} \times 7_{52} \times 7_{64}}{100}$ thick. Tolerance * 20% to +50% and † -20% to +80%. ted at 150 WVDC.

pe CK: diameter as indicated; $\frac{5}{2}$ thick, lerance -20 to +80%. Rated at 50 WVDC.

ITPE DA							
Stock No.	Туре	Mfd	EACH				
L 627 L 628 L 629	203 503 104	.02 .05 .1	.36 .81 1.35				
TYPE DDA							
11 L 630 11 L 631	503 104	.05	.30				

11 L 631	104	1.	.60
	TYPE D	M	
L 632 L 633 L 635 L 636	101* 201* 501* 102*	.0001 .0002 .0005 .001	.30
L 637 L 638 L 639 L 640	202* 302† 502† 103†	.002 .003 .005 .01	.30 .30 .30

TYPE CK							
tock No.	Type	Mfd	Dia.	EACH			
L 642 L 643 L 644 L 645 L 646 L 647 L 648	502 103 203 253 303 503 104	.005 .01 .02 .025 .03 .05	3/8" 3/8" 9/16" 9/16" 5/8"	21 21 21 21 60			

FEED-THRU HI-KAPS

iny ceramics for singleble mounting. Specifically
signed for and widely used
high frequency circuits.
ated 500 WVDC. Type
T has 12-28 mounting nut
id .050" dia. tinned coper leads with hooked ends.
IFT has ¼" dia. hole and
blders to chassis (has No.
5 leads). Tolerance: *±20%; †-20 to +50%;
±10%; †guaranteed minimum value. Shpg.
t., 2 oz.



A	TYPEF	1	
tock No.	Туре	Mmf	EACH
L 390 L 391 L 392 L 393 L 394	FT- 500 FT-1000 FT-1500 FT-1800 FT-2300	* 500 *1000 †1500 †1800 †2300	.75

TYPE	MET MINI	ATURES	
L 488 L 489 L 490 L 491	MFT-50 MFT-100 MFT-500 MFT-1000	\$ 50 \$ 100 * 500 ‡1000	.30

850 TRANSMITTING CAPACITORS

deal for RF power circuits in igh-voltage, high frequency ircuits. Silver electrodes fired oceramic. †Neg. temp coefcient 750 parts/million °C. Zero temp. coeff. §Based on 0°C temp. rise. 850 types are 10% tolerance; 858, ± 20%.

Hex studs ½" long, 6-32 tapped thread. Av. hpg. wt., 2 oz.



Stock No.	Mfr's Type	Mmf	WVDC	§RF Load 30 Mc	EACH
L 100 L 101 L 102 L 103	850S-25Z* 850S-50Z* 850S-50N† 850S-75N†	25 50 50 75	7500	7 amps 10 amps 8.8 amps 10 amps	2.70
L 104 L 107 L 108	850S-100N 858S-500 858S-1000	100 500 1000		9.8 amps	2.70

SERIES DD DISC CERAMICS

An extensive selection of Series DD ceramic capacitors in a wide variety of values and working voltages to suit practically any need. Engineered for circuitry requiring high capacity, low inductance and reliable performance. Small in size and ruggedly constructed, these céramic capacitors are used extensively in compact radio and television assemblies as well as in high fidelity equipment of all types. These disc ceramic capacitors offer higher dielectric constants, greater breakdown voltages and higher capacities in less space than similarly rated paper or mica capacitors. Leads are No. 22 tinned copper. Tolerances are $\pm 20\%$ except $\dagger \pm 0.5$ mmf, $^*\pm 10\%$, §guaranteed minimum value, and $^*\pm -20\%$ to 80%. Made to withstand extreme temperature, humidity and vibration. Av. shpg. wt., 2 oz.



DD 1000 AOF12							
No.	Type	Mmf	No.	Туре	Mmf		
11L406	3R3+	3.3	11L431	471*	470		
11L407	050*	5	11L706	471G§	470		
L520	060*	6	11L432	501* 561*	500 560		
11L408	6R8*	6.8	11L433				
11L522	080*	8	11L536	601* 681*	600		
11L409 11L523	100*	10 12	L434 L435	751*	750		
11L523	120* 150*	15	11L435 11L436	801 §	800		
111411	200*	20	1 L L 537	821*	820		
11L525	220*	22	11L685	911*	-910		
11L412	250*	25	11L437	102*	1000		
11L527	270*	27 33	11L707	102G§	1000		
11L413	330*	33	L538	122* 152*	1200 1500		
11L414	390*	39	1111111				
11L415	470*	47	L709	152G§ 162*	1500 1600		
11L416	500*	50 56	L540	182*	1800		
11L417 11L418		68	11 L439		2000		
111419	750*.	75	11L542	202§ 222§	2200		
11L529	820*	82	11L543	252§	2500		
11L420	101*	100	11L544	272§ 302§	2700		
11L421	121*	120	11L440	302§	3000		
11L531	131*	130	Fe00	3328	3300		
111422	151*	150	11L601	392§			
1 L423	181*	180	Fe05	4028	4000		
11L424		200	L603	432§ 472	4700		
L425	1 22 2	220 250	L44 L7 0	472G§	4700		
L426	201	270		5028	5000		
11L428	-	300			5600		
111429	1001	330		562 § 682 § 752 §	6800		
11 L534		360		752§	7500		
11L430	391*	390	11L442	5022	5000		
11L535	401*	1 400	IIILI06	1032	10,000		

DD 600 VOLTS

Stock No.	Туре	Mmf	EACH
11 L 686 11 L 042 11 L 687 11 L 688	153** 203** 303** 403** 503**	15,000 20,000 30,000 40,000 50,000	.24 .24 .45 .45

UK "ULTRA-KAP" MINIATURE DISC CAPACITORS

Disc ceramic capacitors designed to meet the small size and high capacitance requirements of transistor circuitry. Specifically engineered for low-voltage bypass and coupling applications. Present extremely low power factors. Insulated with double coating of "Durez" and wax impregnated to withstand extreme temperatures, humidity and vibration. 5½" thick. UK types are 3 WVDC; UK10 types are 10 WVDC. Tolerance -20 to +80%. Guaran-

teed minimum value. Av. shpg. wt., 2 oz.							
Stock No.	Type	Mfd	Dia.	EACH			
L 286 L 297 L 299 L 701	UK-502 UK-103 UK-203 UK-104	.005 .01 .02 .1	1/8" 1/8" 1/8" 3/16"	.75 .75 .75			
II L 293 II L 294 II L 295 II L 296	UK-224 UK-474 UK-105 UK-225	.22 .47 1.0 2.2	1/4" 3/8" 9/16"	.33 .33 .54			
L 702 L 703 L 704 L 705	UK10-503 UK10-104 UK10-204 UK10-474		1/4" 3/8" 9/16" 3/4"	.33 .33 .54			

DF FLAT PLATE "HI-KAPS"



IME

Stock No.	Туре	Mfd	EACH
L 247	DF-503	.05	.75
L 245	DF-104	.1	1.05

DD16 1600-VOLT BUFFER CAPACITORS

Stock No.	Mfr's Type	Nifd	NET
L 456	302 §	.003	
L 37	502 §	.005	
L 372	602 §	.006	
L 457	702 §	.007	,27
L 373	752 §	.0075	
L 374	802 §	.008	
L 375	103 §	.01	
11 L 376	153**	.015	.48

DD30 3000 VOLTS

Stock No.	Mfr's Type	Mmf	Stock No.	Mfr's Type	
L 609	470	47	L 6 9	271	270
L 610	500	50	L 620	471	470
L 612	680	68	L 62	501	500
L 6 3	820	82	L 622	102	1000
L 6 4	101	100	L 624	202	2000
L 6 7	221	220	L 626	502	5000

DD60 6000 VOLTS

Stk. No	Type	Wmf	Stk. No.	Type	Mmf
L 68 L 46 L 46	2 250	25	L 475 L 476 L 682	181	150 180 390
L 47 L 47 L 47	2 820		L 486 L 683	751	500 750

NET EACH......36

Stk. No.	Type	Mmf	Stk.	No.	Type	Mmf
L 445 L 447	102 152	1000 1500	IIL	448	202	2000

NET EACH......60

TYPE D6 BC TUBULAR "HI-KAPS"

Compact, moisture-proof ceramics for use in bypass and coupling or filter applications. Rated at 600 working volts DC. ±10% tolerance, except § ±20%.
*GMV (guaranteed minimum value). Av. shpg. wt., 2 oz.



D6 CERAMIC CAPACITOR SIZES

		Cap. Mmf	Size
3 to 500	1/4 x 1/2"		1/4 x 1 3/16"
560 to 680	1/4 x 1 3/16"		5/16 x 2 9/32"
750 to 1800	1/4 x 1/2"		5/16 x 1 3/16"

No.	Type	Mmf	No.	Type	Mmf
II L 545	030	3 5	L 571	271 301	270 300
II L 547	100	10 12	II L 573	391	330 390
II L 549	150	15	11 L 575	401	400
L 55 L 552	200 220	20 22	11 L 576	471 501	470 500
11 L 553 11 L 555	250 330 390	25 33 39	L 578 L 579 L 580	561 601 681	560 600 680
II L 557 II L 558 II L 559	470 500 560	47 50 56	II L 582 II L 583	821 102 122	820§ 1000§ 1200§
11 L 560	680	68	ii L 585	152	1500\$
L 561 L 562 L 564 L 565	750 820 101 121	75 82 100 120	L 586 L 587 L 588 L 589	182 202 222 252	1800§ 2000§ 2200§ 2500*
L 566 L 567 L 568 L 569 L 570	151 181 201 221 251	150 180 200 220 250	11 L 591 11 L 592 11 L 593 11 L 594	402	3000* 3300* 4000* 4700* 5000*

NET EA					
No.	Type	Mmf	No.	Туре	Mmf
111.596	562	5600*	11L 599	103	10,000*

NET EACH.....

Potter & Brumfield Relays and Accessories _

ALLIED CAN SUPPLY THE COMPLETE POTTER & BRUMFIELD LINE. Is the relay you require listed on this page? If not, remember that Allied stocks many other types of

Potter & Brumfield relays-only the most widely used ones are shown here. Contact us for prices and other product informa-tion on any types not listed—you will receive a prompt reply.

PR HEAVY-DUTY POWER RELAYS



For industrial applications. Heavy screw terminals. All U.L. Approved; AC types also CSA Approved; except PR11AL5, neither. All have 25-emp silver contacts except PR11AL5 with 20 amp contacts. *Auxiliary SPDT 5-amp contacts. Sizes: all are 2½" wide; PR3, PR5, 2½x2½"; PR7, 2½x 2½6"; PR11, 2½x3½". Av. shpg. wt., 12 oz.

27/16"; PR11, 21/2x33/8". Av. shpg. wt., 12 oz.					
Stock No.	Type	Volts	Action	NET	
76 P 75 F 75 P 96 F 75 P 600 F	PR3AY PR3AY PR3AY PR3AY PR3AY	6 AC 12 AC 24 AC 115 AC 230 AC	SPST SPST SPST SPST SPST	4.15 4.15 4.15 4.15 4.50	
76 P 509 F 76 P 101 F 75 P 968 F	PR3DY PR3DY PR3DY	12 DC 24 DC 110 DC	SPST SPST SPST	4.15 4.15 4.75	
75 P 878 F 75 P 962 F 75 P 602 F	PR5AY PR5AY PR5AY PR5AY PR5AY	6 AC 12 AC 24 AC 115 AC 230 AC	SPDT SPDT SPDT SPDT SPDT	4.35 4.35 4.35 4.35 4.75	
76 P 510 F 76 P 754 F 75 P 969 F	PR5DY PR5DY PR5DY PR5DY	6 DC 12 DC 24 DC 110 DC	SPDT SPDT SPDT SPDT	4.35 4.35 4.35 4.95	
75 P 879 F 75 P 963 F 75 P 603 F	PR7AY PR7AY PR7AY PR7AY PR7AY	6 AC 12 AC 24 AC 115 AC 230 AC	DPST DPST DPST DPST DPST	4.90 4.90 4.90 5.35	
76 P 511 F 76 P 513 F 75 P 970 F	PR7DY PR7DY PR7DY PR7DY	6 DC 12 DC 24 DC 110 DC	DPST DPST DPST DPST	4.90 4.90 4.90 5.50	
76 P 752 F 75 P 964 F 75 P 663 F	PR11AY PR11AY PR11AY PR11AY PR11AY	6 AC 12 AC 24 AC 115 AC 230 AC	DPDT DPDT DPDT DPDT DPDT	6.45 6.45 6.45 6.95	
76 P 103 F 76 P 109 F 76 P 753 F 76 P 755 F 76 P 756 F	PR11AL5 PR11AL5 PR11AL5 PR11AL5 PR11AL5 PR11AL5	6 AC 12 AC 24 AC 115 AC 230 AC 440 AC	DPDT* DPDT* DPDT* DPDT* DPDT* DPDT*	8.15 8.15 8.15 8.15 9.40	
76 P 512 F 76 P 514 F	PR11DY PR11DY PR11DY PR11DY	6 DC 12 DC 24 DC 110 DC	DPDT DPDT DPDT DPDT	6.45 6.45 6.45 7.05	

MR MEDIUM-DUTY POWER RELAYS



For general applications. Silver contacts rated 8 amps except MR3 types rated 10 amps. AC coils for 60 cycles. ST actions normally open. Size: MR3 and MR5, 11½x 11½x 23½x"; MR11: 2x2¾6x 21½x"; MR14: 2x2¾6x 23½x". Av. wt., 4 oz.

2 ³ / ₃₂ ". Av. wt., 4 oz.					
Stock No.	Туре	Volts	Action	NET	
75 P 975	MR3A	6 AC	SPST	3.85	
75 P 978 75 P 665	MR3A MR3A	24 AC 115 AC	SPST	3.85 3.85	
	MR3D		SPST	3.50	
75 P 187	MR3D	6 DC 12 DC 24 DC	SPST	3.50	
	MR3D		SPST	-	
75 P 610 76 P 757	MR5A MR5A	6 AC 12 AC	SPDT	3.45 3.45	
75 P 979	MR5A	24 AC	SPDT	3.45	
75 P 614 75 P 657	MR5A MR5A	115 AC 230 AC	SPDT	3.45	
	MR5D	6 DC	SPDT		
75 P 188	MR5D	12 DC	SPDT	3.20	
75 P 618 75 P 188 75 P 989 76 P 760	MR5D MR5D	24 DC 110 DC	SPDT	3.20 3.20 3.20 3.70	
75 P 612	M R11A	6 AC	DPDT	4.85	
76 P 758	MR11A	12 AC	DPDT	4.85	
75 P 981	MR11A	24 AC	DPDT DPDT	4.85	
75 P 981 75 P 616 75 P 659	MR11A MR11A	115 AC 230 AC	DPDT	4.85 5.25	
75 P 985	MR11D	6 DC	DPDT	4.60	
75 P 985 75 P 190 75 P 991	MR11D	12 DC	DPDT	4.60	
75 P 991 76 P 761	MR11D MR11D	24 DC 110 DC	DPDT	4.60 5.10	
75 P 976	MR14A	6 AC	3PDT	5.80	
76 P 759 75 P 982	MR14A	6 AC 12 AC 24 AC	3PDT	5.80	
75 P 982 75 P 972 75 P 974	MR14A MR14A	24 AC 115 AC	3PDT 3PDT	5.80 5.80	
75 P 974	MR14A	230 AC	3PDT	6.20	
75 P 986 75 P 191 75 P 992	MR14D	6 DC	3PDT	5.45	
75 P 191 75 P 992	MR14D MR14D	12 DC 24 DC	3PDT 3PDT	5.45 5.45	
76 P 762	MR14D	110 DC	3PDT	5.95	

KRP ENCLOSED RELAYS



Completely enclosed compact relays in hi-impact, transparent, plastic cases. Fully dust-proof and weather-proof for long, trouble-free operation. Types KRP5 and KRP11 plugs into 11-pin socket. Gold-flashed silver contacts rated 5 amps at 115 V AC, 60-cycle resistive. 113/22x113/32x2". Av. wt., 5 oz.

C	Constant No. 1 : Town I Make I A of the I NET					
Stock No.	Туре	Volts	Action	NET		
75 P 214	KRP5A	6 AC	SPDT	5.45		
75 P 215	KRP5A	24 AC	SPDT	5.45		
75 P 213	KRP5A	115 AC	SPDT	5.45		
75 P 217	KRP5D	6 DC	SPDT	5.40		
75 P 244		12 DC	SPDT	5.40		
75 P 245	KRP5D	24 DC	SPDT	5.40		
75 P 240	KRP5D	110 DC	SPDT	6.00		
75 P 920	KRP11A	6 AC	DPDT	6.05		
76 P 524		12 AC	DPDT	6.05		
75 P 216		24 AC	DPDT	6.05		
75 P 921	KRP11A	115 AC	DPDT	6.05		
76 P 597	KRP11A	230 AC	DPDT	6.45		
75 P 922	KRP11D	. 6 DC	DPDT	6.00		
75 P 246	KRP11D	12 DC	DPDT	6.00		
75 P 247	KRP11D	24 DC	DPDT	6.00		
76 P 352	KRP11D	110 DC	DPDT	6.60		
75 P 091	KRP14A	6 AC	3PDT	7.50		
76 P 525	KRP14A	12 AC	3PDT	7.50		
75 P 092		24 AC	3PDT	7.50		
75 P 093	KRP14A	115 AC	3PDT	7.50		
75 P 557	KRP14A	230 AC	3PDT	7.90		
75 P 094	KRP14D	6 DC	3PDT	7.45		
75 P 095	KRP14D	12 DC	3PDT	7.45		
75 P 096	KRP14D	24 DC	3PDT	7.45		
76 P 998	KRP14D	110 DC	3PDT	8.05		

KCP ENCLOSED RELAYS

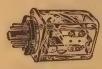


Plate circuit relays. In high-impact, weatherproof plastic cases. Fit standard octal or 11-pin socket (at right, below). 2 amp resistive, silver contacts. 113/32" sq. by 2". Wt., 5 oz.

Stock No.	Туре	Ohms:	Ma	Action	NET
75 P 287	KCP5	2500	7.2	SPDT	5.90
75 P 288	KCP5	5000	5.0	SPDT	6.00
75 P 289	KCP5	10,000	3.6	SPDT	6.40
75 P 290	KCP11	2500	10.0	DPDT	6.30
75 P 291	KCP11	5000	7.2	DPDT	6.40
75 P 292	KCP11	10,000	5.0	DPDT	6.80
75 P 097	KCP14	2500	12.3	3PDT	7.75
75 P 098	KCP14	5000	8.7	3PDT	7.85
75 P 099	KCP14	10,000	6.1	3PDT	8.25

KA GENERAL-PURPOSE RELAYS



Compact, general purporelays for transmitters, po relaysfor transmitters, power supply control, etc. Mois ture resistant. Heavy-duty-contacts rated at 5 amps AC coils for 60 cycles. Al are U.L. Approved. 6-3; mounting stud. 11½812½2; 115½2″. Shpg. wt., 6 oz.

Stock No.	Туре	Volts	Action	NET
75 P 158	KA5AY	6 AC	SPDT	3.20
76 P 780	KA5AY	12 AC	SPDT	3.20
75 P 161	KA5AY	24 AC	SPDT	3.20
75 P 164	KA5AY	115 AC	SPDT	3.20
75 P 153	KA5AY	230 AC	SPDT	3.60
75 P 167	KA5DY	6 DC	SPDT	3.05
75 P 170	KA5DY	12 DC	SPDT	3.05
75 P 173	KA5DY	24 DC	SPDT	3.05
76 P 782	KA5DY	110 DC	SPDT	3.65
75 P 159 76 P 781 75 P 162 75 P 165 76 P 783	KA11AY KA11AY KA11AY KA11AY KA11AY	6 AC 12 AC 24 AC 115 AC 230 AC	DPDT DPDT DPDT DPDT DPDT	3.85 3.85 3.85 4.25
75 P 168	KA11DY	6 DC	DPDT	3.40
75 P 171	KA11DY	12 DC	DPDT	3.40
75 P 174	KA11DY	24 DC	DPDT	3.40
76 P 522	KA11DY	110 DC	DPDT	4.00
75 P 160	KA14AY	6 AC	3PDT	4.25
76 P 779	KA14AY	12 AC	3PDT	4.25
75 P 163	KA14AY	24 AC	3PDT	4.25
75 P 166	KA14AY	115 AC	3PDT	4.25
75 P 152	KA14AY	230 AC	3PDT	4.40
75 P 169	KA14DY	6 DC	3PDT	3.85
75 P 172		12 DC	3PDT	3.85
75 P 185		24 DC	3PDT	3.85
76 P 523		110 DC	3PDT	4.45

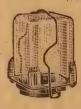


Compact, pulse-operaterelay. For on-off or reversible as short as 60 milliseconds at 5 cps. Gold-flashes silver contacts, rated 7, amps at 115 volts AC, resistive load. Size: 2½6x23½x25½% Shpg. wt. 5 oz.

		25.00	7/04 · Dirpg. West o Oz.			
Stoc	k No.	Туре	Volts	Action	NET	
76 F	504	PC11A	6 AC	DPDT	5.50	
		PC11A	12 AC	DPDT	5.50	
76 F	502	PC11A	24 AC	DPDT	5.50	
76 F	500	PC11A	115 AC	DPDT	5.50	
76 F	726	PC11D	6 DC	DPDT	5.35	
76 F	111	PC11D	12 DC	DPDT	5.35	
76 F	506	PC11D	24 DC	DPDT	5.3	
		PC17A	24 AC	4PDT	7.60	
76 F	501	PC17A	115 AC	4PDT	7.60	
76 F	507	PC17D	24 DC	4PDT	7.45	

RELAY ACCESSORIES

TYPE "P" RELAY CASES



75 P 554. Type 9-KR-15 Hold-Down Spring. For horizontal, inverted, and vibration-secure mounting of KCP and KRP relays. Stainless steel; two ½" mtg. holes on 15%" ctrs. 50 per box. Shpg. wt., 3 oz.

NET PER BOX. 5.00

RELAY CASES

Amphenol 77MIP8 Socket. For KRP and KCP relays. For all relays except KRP14 and KCP14. Octal type. Requires 15/2" hole. Mtg. centers, 11/2". Wt., 5 oz. 40 H 028. NET.

NEW DIACROM RELAY CLEANING SPATULAS



Diamond a-brasive spatu-las specifically designed for designed for cleaning relay contacts. Re-quire only gen-tle pressure to do a complete job while leav-

iob while leaving contact gap unchanged. Non-clogging. Non-clogging. high dielectric strength permits use when relay is under power. In three color-coded grades by application, or in plastic-cased kits of 3 spatulas. 6" long. Wt., 2 oz. each; 10 oz., kit.

SINGLE SPATULAS

Stock No.	Mfr's Type		NET
77 P 329	300	Industrial Relays Intermediate Relays Sensitive Relays	4.95

SPATULA KITS

Stock No.	Mfr's Type		PER
77 P 286 77 P 288	222 333	1 ea.—200, 300, 400. 3 each—200. 3 each—300. 3 each—400.	14.85

Potter & Brumfield, Advance, B-T Relays

POTTER & BRUMFIELD RELAYS

AB APPLIANCE RELAYS

al for appliance appli-ions requiring long-life d quiet operation. DT silver contacts rat-tat 10 amps. Size: 11½2x 11½6". Snap-on and w terminals provided. o 8-32 mtg. holes on " ctrs. *U.L. Ap-ved. 5 oz.



ck No.	Туре	Volts	NET
P 399	AB11AY*	6 AC	5.30
P 418	AB11AY*	24 AC	5.30
P 419	AB11AY*	115 AC	5.30
P 448	AB11AY*	230 AC	5.70
P 768	AB11D	12 DC	5.20
P 769	AB11D	24 DC	5.20
P 449	AB11D	110 DC	5.70

ABC MEDIUM-POWER RELAYS

small motors, industrial trols, etc. Have DPDT er contacts rated at 10 ps. Snap-on and screw ninals are supplied. Have st covers. Size above (ssis: 131/4,x225/32x23/32". Single No. 8-32 anting stud 3/8" long and locating tab. *U.L. broved. Av. shpg. wt., 7 oz.



P 431	ABC11AY*	6 AC	6.40
P 432	ABC11AY*	24 AC	6.40
P 433	ABC11AY*	115 AC	6.40
P 464	ABC11AY*	230 AC	6.80
P 770	ABC11D	6 DC	6.30
P 771	ABC11D	12 DC	6.30
P 772	ABC11D	24 DC	6.30
P 465	ABC11D	110 DC	6.80

B MINIATURE DC POWER RELAYS

gged telephone type relays, signed for very high current lications. Contact arms are vy brass with large silver tacts; solder terminals. Rat-60 amps, SPST, double ak, normally open. Size: 1 1/6x 1/1/26". Mounting: Four No. 8 tanged boles on 84784" tapped holes on 3/8 x 3/8



0059 MB3D 6 DC 5.40 0065 MB3D 12 DC 5.50 0066 MB3D 24 DC 5.50	ers. Av	. snpg. wt., 5	OZ.	
067 MB3D 110 DC 5.90	065	MB3D MB3D	12 DC 24 DC	5.50 5.50

MS MOTOR-STARTING RELAYS

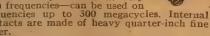
capacitor-start, induction-motors. Adjustable pull-in. types normally closed. MS2 es rated at ¾ HP; MS4 at b. *Have double-break con-s. U.L. Approved. 2½x21½x % Av. wt 5 0.2



•	Prv.	WC., 0 02.		-	
		M S2AY M S2AY	115 AC 230 AC	SPST	3.55
9	764 766	M S4AY M S4AY	115 AC 230 AC	SPST* SPST*	4.15

TYPE CB COAXIAL RELAYS

igned to meet the problems oaxial cable switching. For use 1 52-ohm RG coaxial cables RF outputs of up to 800 watts ines with low SWR. For use in bile, aircraft, and fixed-station allations. SWR is extremely less than 1.08:1.00 at 150 Extremely low-loss at very 1 frequencies—can be used on uencies up to 300 megacycles. Internal tacts are made of heavy quarter-inch fine er.



have SPDT internal contacts directly conted to Amphenol 83-1R connector. In addit, all Types CB/1C2C have external DPDT tacts for use with auxiliary circuits. All conserved at 5 amps. An inspection port in the anod housing permits access to internal cons. With two tapped mounting holes: 6-32 11/16" centers. Size: 11/1/2x33/2x319/2" for 1C; 2/1/2x33/1/2x41/6" for CB1C2C. Wt., 11 oz.

-	0, 2/32-0/32-1/10 101 021 020. 1101.							
k	No.	Mfr's Type	Volts	Ohms	NET			
P	902	CB/1C/115A	115 v. AC	280	21.00			
P	910	CB/1C2C/115A	115 v. AC	280	24.55			
P	908	CB/1C/6VD	6 v. DC	18	20.00			
P	909	CB/1C2C/6VD	6 v. DC	18	23.60			
P	305	CB/1C/12VD	12 v. DC	70	20.00			
P	306	CB/1C2C/12VD	12 v. DC	70	123.60			
P	307	CB/1C/24VD	24 v. DC	280	20.00			
P	309	CB/1C2C/24VD	24 v. DC	280	23.60			

GP "PIC AND BUILD" SERIES

Units available can be combined to produce twenty different relays, each easily converted to an alternative sensitivity or switching arrangement in minutes. The 110 v. DC coil is approximately 5000 ohms. The 2500, 5000 and 10,000 ohm coils may be used in plate circuit applications and can be adjusted to operate on 13, 8, and 6.5 ma respectively. 1/6 diameter switch contacts are rated at 5 amps. Has tapped core to permit mounting with single 8-32 screw. Size, 1x11/16x123/2". Av. wt., 4 oz.

Stock No.	Mfr's Type	Description	NET
76 P 333		6 v. AC Coil	1.65
76 P 539	GPA	12 v. AC Coil	1.65
76 P 334	GPA	24 v. AC Coil	1.65
76 P 335 76 P 336	GPA GPA	115 v. AC Coil 230 v. AC Coil	1.65
76 P 337 76 P 338	GPD GPD	6 v. DC Coil	2.10
76 P 339	GPD	24 v. DC Coil	2.10
76 P 340	GPD	110 v. DC Coil	3.15
76 P 341	GPD	2500-ohm Coil	1,50
76 P 342	GPD	10,000-ohm Coil	2.10
76 P 343		DPDT Switch	1.70
76 P 344	GP17	4PDT Switch	2.95

LB-5 PLATE CIRCUIT RELAYS

Small, fast-acting circuit relays. For any circuit supplying only a few milliwatts of DC. Breakdown: 500 volts rms minimum. Silver contacts are rated 5 amps at 115 V. AC, 60-cycle resistive. All units have SPDT action. Adjusted by bending tail-spring hook. Size, 22½x1¼x13/8". For DC operation only. Shpg., wt., 5 oz.

Stock No.	Ohms	Ma	NET EACH
75 P 625	2500	9	2.45
75 P 626	5000	6.3	2.65
75 P 774	10,000	4.5	2.85

LM PLATE-CIRCUIT RELAYS



For photoelectric and similar circuits. Medium-cost, high quality, current-actuated relays. Pull-in adjusting screw. DC coils only. Silver contacts rated 5 amps, 115 v., 60 cycles, non-inductive load. Have 100 milliwatt sensitivity for single-pole, 200 mw for double-pole. *SPDT; †DPDT. Sizes are: LM5, 2½6x1½x 2½6"; LM11, 2½6x2½2x2½2". Av. shpg. wt., 9 oz.

Stock No.	Туре	Ohms	Ma	NET
75 P 673	LM5*	2500	6.3	3.90
75 P 674	LM5*	5000	4.5	4.10
75 P 675	LM5*	10,000	3.2	4.40
75 P 682	LM11†	2500	9.0	5.55
75 P 683	LM11†	5000	6.3	5.75
75 P 684	LM11†	10,000	4.5	6.30

AP RATCHET IMPULSE RELAYS

An extremely fast acting relay for applications requiring on-off or reversing action on alternate impulses. Operates on impulses as short as 60 ms. Intermittent duty. Contacts are \(\frac{3}{6} \) fine silver, rated 5 amps. Coils are wound on molded bobbins. Phenolic cams, hardened steel pawl and ratchet with pin hinged armature. Tinned solder terminals. Mounting: Three \(\frac{3}{12} \) diameter holes on \(\frac{3}{12} \) for triangular centers. Size: \(\frac{2}{3} \) for \(\frac{3}{12} \) for

Stock No.	Туре	Volts	Action	NET
75 P 997	AP11A	6 AC	DPDT	8.70
76 P 581	AP11A	12 AC	DPDT	8.70
75 P 995	AP11A	24 AC	DPDT	8.70
75 P 993	AP11A	115 AC	DPDT	8.70
76 P 583	AP11A	230 AC	DPDT	9.15
76 P 585	AP11D	6 DC	DPDT	8.70
75 P 999	AP11D	24 DC	DPDT	8.70
76 P 589	AP11D	110 DC	DPDT	9.35
75 P 996	AP17A	24 AC	4PDT	10.50
75 P 994	AP17A	115 AC	4PDT	
76 P 588	AP17D	12 DC	4PDT	10.50
75 P 778	AP17D	24 DC	4PDT	
76 P 590	AP17D	110 DC	4PDT	

BS SERIES

BS SERIES

Long-coil telephone type relays. Ideal for computer and automatic test equipment. Tinned solder terminals for rear panel mounting. Have 4-amp,6PDT twin palladium contacts except *4PDT. BS17L and BS23L are plate circuit relays; †5.5 ma, §7.6 ma operating current. Two No. 8-32 tapped holes on 3/4" mtg. centers. Shpg. wt., 11 oz.

Stock No	Туре	Volts	Ohms	EACH
76 P 646	BS17D	24 DC*	1000	7.40
76 P 649	BS17L	+*	10,600	8.00
76 P 648	BS23A	115 AC	71	10.50
76 P 647 76 P 312 76 P 313	BS23D BS23D BS23D	24 DC 48 DC 110 DC	1000 1600 6500	8.95 9.30 9.50
76 P 499	BS23L	§ ·	10,000	9.50

KT ANTENNA-SWITCHING RELAYS

For selecting either of two antennas or for switching single antenna from receiver to transmitter and vice-versa. Designed for RF applications: glass base insulation for minimum loss. Will switch '300-ohm line. All are DPDT. Mtg.: 6-32 stud. Silver 5-amp contacts. Size: 11/4x15/8x111/6". Shpg. wt., 2 oz.

Stock No.	Туре	Volts	NET EACH
76 P 373	KT11A	6 AC	2.70
76 P 374	KT11A	115 AC	
76 P 375	KT11D	6 DC	3.70
76 P 376	KT11D	12 DC	

ADVANCE RELAYS GH GENERAL PURPOSE RELAYS

Efficient midget relays. GHP Types enclosed in transparent dustproof cover with standard octal plug for 1C and 2C; *11-pin plug for 3C. GHA Types have solder terminals. All have 5 amp contacts, non-inductive load. GHA: 14%4X 11%4" sq. GHP: 211/6x111/32" sq. Shgp. wt., 4 oz.





Stock No.	Mfr's Type	Coil Volts	Action	NET EACH
87 P 914	GHA/1C/24AC	24 AC	SPDT	3.05
87 P 915	GHA/1C/115AC	115 AC	SPDT	3.05
87 P 926	GHA/1C/24DC	24 DC	SPDT	3.05
87 P 955	GHP/1C/24AC	24 AC	SPDT	5.10
87 P 958	GHP/1C/115AC	115 AC	SPDT	5.10
88 P 274	GHP/1C/24DC	24 DC	SPDT	5.15
87 P 918	GHA /2C /24AC	24 AC	DPDT	3.55
87 P 919	GHA /2C /115AC	115 AC	DPDT	3.55
87 P 929	GHA /2C /24DC	24 DC	DPDT	3.35
87 P 956	GHP /2C /24AC	24 AC	DPDT	5.75
87 P 959	GHP /2C /115AC	115 AC	DPDT	5.75
88 P 275	GHP /2C /24DC	24 DC	DPDT	5.65
87 P 922	GHA /3C /24AC	24 AC	3PDT	4.05
87 P 923	GHA /3C /115AC	115 AC	3PDT	4.05
87 P 932	GHA /3C /24DC	24 DC	3PDT	3.75
87 P 957	GHP/3C/24AC*	24 AC	3PDT	7.05
87 P 960	GHP/3C/115AC*	115 AC	3PDT	7.05
88 P 276	GHP/3C/24DC*	24 DC	3PDT	6.95

TYPE AM ANTENNA RELAYS

Compact "transmit-receive" antenna relays. For low-power RF use. DPDT silver contacts rated 2 amps at 115 VAC or 6.5 VDC resistive. Mounting stud. Size, 1%cx¹⁵/6x¹⁵/6". Shpg. wt., 6 oz.



Stock No.	Mfr's Type	Volts	NET
87 P 994	AM/2C/6VA	6 v. AC	4.70
	AM/2C/6VD	6 v. DC	4.20
87 P 996	AM/2C/12VD	12 v. DC	
87 P 901	AM/2C/115VA	115 v. AC	5.05

BLONDER-TONGUE THERMO RELAY

Model TR-3A. Replacement relay used in boosters and converters which automatically turn on and off with the TV set. When TV set is turned on, current drawn by the set flows through thermal unit of the relay, heating it, and causing the relay to close—thus supplying power to the booster or converter unit. Wher. TV set is turned off, relay opens, and the converter or booster is turned off. Silver contacts are adjustable for time delays of .1 to 4 seconds. Handle up to .5 amp at 117 volts or 1/4 amp at 200 volts, AC. Provide exceptionally uniform operation over current range of .1 to 3 amps. Size, 21/4x1x3/8". Shpg. wt., 2 oz. 75 P 000. List, \$2.00. NET.

Guardian, Dow-Key and Amperite Relays.













2200

GUARDIAN RELAYS AND SOLENOIDS

MER-115

UNIVERSAL "200" SERIES

Universal interchangeable parts for assembling custom relays. Listings include AC, DC, and plate coils, and switch contact assemblies. Complete relay requires one coil and one contact assembly. For additional contacts use the contact switch parts kit. Contact ratings given are at 115 v. 60 cycle AC, non-inductive load. Use two 6-32 screws for mounting. Overall size: With standard contact assembly $2\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}x^2$; midget contact assembly, $2\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}x^2$. Av. slpg. wt., 4 oz.

AC Coils		DC Coils
Stock No. Voits 75 P 709 6 75 P 710 12 75 P 711 24 75 P 712 115 75 P 888 230	NET 1.75 1.75 1.75 2.05 2.70	Stock No. Volts NET 75 P 713 6 1.90 75 P 714 12 1.90 75 P 715 24 1.90 75 P 716 32 1.90 75 P 717 110 2.50

SERIES 200 SWITCH CONTACT ASSEMBLIES

Stock No.	Туре	Description	NET
75 P 707 75 P 708 75 P 724 75 P 889	200-1 200-2 200-4 200-5	SPDT contact assembly. 8 amps. DPDT contact assembly. 8 amps. DPDT contact assembly. 12.5 amps. 4PDT contact assembly. 8 amps.	1.50 2.00 2.25 3.50
	200-M1 200-M2 200-M5		1.40 1.75 2.85

Type 200-M3. Switch parts kit—adds up to 2 poles to 200-M1, 200-M75 P 725, NET..... Type 200-3. Switch parts kit—adds up to 2 poles to 200-1, 200-2. 75 P 730. NET.....



Protects against surges or overload. Has remote electrical reset and overload adjustment. Adjustable from 250-750 ma, DC. 3000 v. insulation. Auxiliary contacts for pilot light indicates "overload" or "clear" position. For industrial panel installation for remote protection of machines and replacing fuses. Contacts rated 1500 w. non-inductive, 1 kw inductive, at 115 v. 60 cycles, 2000 v. insulation. 43/4x15/6x2". 11/4 lbs. 885

ALLIED CAN SUPPLY THE COMPLETE GUARDIAN LINE. Only the most widely used Guardian relays are shown on this page. Contact us for prices and other information on any types not listed—you will receive a prompt reply to your inquiry.



DOW-KEY COAX ANTENNA RELAYS

Compact coax antenna relays for switching one antenna between transmitter and receiver, etc. Letter G in type no. indicates shielding that provides 100 db isolation between transmitter and receiver. Pure silver contacts rated to 1 kw. Breakdown v., over 1000 v. rms. Imp., 50 ohms. Loss, less than 0.03 db at 400 mc. VSWR, 1.15:1. Coil terminals have Teflon feedthroughs for high insulation. *Have DPDT 5-amp external contacts. Size, 23/4x33/4x1/4." Av. shpg. wt., 11 oz.

Size, 2 ³ / ₄ x3 ³ / ₄ x1 ½". Av. shpg. wt., 11 oz.
76 P 114. Type DK60. For 12 v. DC. NET
76 P 5. Type DK60. For 110-v. AC. NET
75 P 953. Type DK60-G. For 12 v. DC. NET
75 P 955. Type DK60-G. For 110 v. AC. NET13.70
76 P 8. Type DK60-G2C*. For 12 v. DC. NET
76 P 9. Type DK60-G2C*. For 110 v. AC. NET
DK60-DPDT Switch. Auxiliary DPDT switch. 5-amp contacts. Mounts externally on DK60-G relay above; is actuated by built-in plunger in relay. Shpt. wt., 2 oz. 75 P 843. NET. 1.95
Type DKF-2 Connector. Double male. Mounts relays directly to output of transmitter. Heavy silver plating. For indoor use. Locking type.

12VDC Coil. Model DK60-M. 12 volt relay coil for converting DK60-G 6 volt DC relay or DK60-G 110 volt AC relays for 12 volt DC use. Ideal for 12 v. automotive systems. Shpg. wt., 3 oz. 2.90

2200 AND 2210 POWER RELAYS

Heavy-duty power relays for motor starting, heater loads and other heavy-duty uses. Series 2200 are DPDT; Series 2210 are DPST, normally open. All have contacts rated at 25 amps, continuous duty, 230 v. AC with 75% power factor load. Operating power requirement, 9.5 va; coil drain, approx. 080 amps at 115 v., 60 cycles. Size: Series 2200, 3½x2½x2½°; Series 2210, 2½6°; Series 2210, 2½6°; Av. shpg. wt., relays, 12 oz.

	2200 Relays		14.1	2210 Relays	
Volts AC	Stock No.	NET EACH	Volts AC	Stock No.	NET EACH
24 115 230	75 P 083 75 P 084 75 P 085 75 P 086	6.10 6.10 6.10 6.50	6 24 115 230	76 P 185 76 P 186 76 P 187 76 P 188	5.25 5.25 5.25 5.60



1A1-18 SERIES INDUSTRIAL SOLENOIDS

Intermittent-duty types for applications not requiring energization for more than 5 minutes with sufficient time between cycles for cooling. Should not be permitted to rise more than 85°C above 24°C ambient without sufficient time to cool. Continuous duty types will not rise more than 85°C above the 24°C ambient temp, when operated at rated load. *Intermittent Type. †Continuous Type.

16, 18

					o o j prot contain		- J R
Stock No.	Type	Volts	Stroke	Lift Oz.	Size	Lbs.	NET
75 P 890 75 P 891	1A1* 1A1†	115AC 115AC	1/8 - 1/2" 1/8 - 1/2"	8 3	1 1/6×1 3/4 ×15/6". 1 1/6×1 3/4 ×15/6"	1/4 1/4	2.80
75 P 154 75 P 155		115AC 115AC	1/8 - 7/8" 1/8 - 7/8"	27 10½	1 5/8 x 1 1/6 x 1 7/6" 1 5/8 x 1 1/6 x 1 7/6"	3/4 3/4	3.20
75 P 892	4*	115AC	1/8-1 1/8"	24	1 5/8 x 2 x 1 7/16"	-1	3.80
75 P 893	4† 12*	115AC 115AC	1/8-1 1/8" 1/8-1"	32	$1\frac{5}{8}$ x 2 x $1\frac{7}{16}$ " $1\frac{7}{16}$ x $1\frac{5}{8}$ x $1\frac{8}{16}$ "	1/2	3.80 4.15
75 P 829 75 P 595	12† 11*	115AC 6DC	1/8-1" 1/8-1"	22 39	1 7/16 x 1 5/8 x 1 3/16" 1 3/16 x 1 5/16 x 1 27/12"	1/2	4.15
76 P 318	11+	6DC	1/8-1"	21	1 \$ 16 x 1 5 16 x 1 27 12"	1/2	2.70
75 P 596 76 P 319	11*	24DC 24DC	18-1" 18-1"	39 21	1 8/6 x 1 5/6 x 1 27/2" 1 8/6 x 1 5/6 x 1 27/2"	1/2 1/2 1/4	2.70
75 P 894	14*	115AC	1/8-1 1/2"	. 110	21/6x27/6x17/8"	1 1/4	5.50
75 P 895 75 P 156	14† 16*	115AC 115AC	1/8-1 1/2" 1/8-3/4"	65 96	21/16x27/16x17/8" 17/16x15/8x11/8"	1 1/4	5.50 3.20
75 P 885	16†	115AC	1/8-5/8"	60	17/6x15/8x11/8"	1/2	3.20
76 P 320 75 P 157	16† 18*	230AC 115AC	1/8-5/8" 1/8-1"	60 304	1 1/6x1 5/8 x1 1/8" 2 1/6x2 1/2 x1 18/6"	1/2	3.40 4.50
75 P 886 76 P 321	18†	115AC 230AC	1/8-1" 1/8-1"	145 145	21/6×21/2×118/6" 21/6×21/2×118/6"		4.50 4.70
70. 321	1 101 ,	200110	/8 4				7.70

MER-115 MIDGET STEPPING RELAY

Electrical-reset stepping relay with 21 active positions; resets from external control or own contacts. Contacts rated 1 amp at 115 v., 60 cycle non-inductive. Stepping and reset coils 115 v., 60 cycle AC. Minimum set pulse, 50 ms; reset, 10 ms. Recommended for experimental purposes original equipment, or replacement. 3½ x23½ % x3½ ". Wt., 13 oz.

75 P 282. NET EACH.

14.00



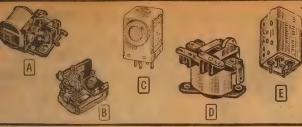
AMPERITE DELAY RELAYS

Hermetically sealed in glass envelope with octal base Heater draws 2 watts. Contacts: SPST. 3 amps at 113 v. AC, 1 amp at 220 v. AC. Voltage Breakdown: Contacts, 1000 v.; Heater-to-Contact, 1500 v., except* 25 v. and 500 v. for delays of 10 sec. or less. Ambient temperatures from -55° to +70° C. Size, Dia., 13½ Height less prongs, 2½ Shgs. wt., 4 oz. Be sure to specify type number as well as stock number.

Delay	Type N	o. Norma	lly Open	Type No. Normally Closed		
Seconds	6.3 v.	26 v.	115 v.	6.3 v.	115 v.	
2*	6N02	26N02	115N02	6C2	115C2	
5*	6N05	26N05	115N05	6C5	115C5	
10*	6N010	26N010	115N010	6C10	115C10	
15	6N015	26N015	115N015	6C15	115C15	
20	6N020	26N020	115N020	6C20	115C20	
30	6N030	26N030	115N030	6C30	115C30	
45	6N045	26N045	115N045	6C45	115C45	
60	6N060	26N060	115N060	6C60	115C60	
75	6N075	26N075	115N075	6C75	115C75	
90	6N090	26N090	115N090	6C90	115C90	
120	6N0120	26N0120	115N0120	6C120	115C120	
150	6N0150	26N0150	115N0150	6C150	115C150	
180	6N0180	26N0180	115N0180	6C180	115C180	

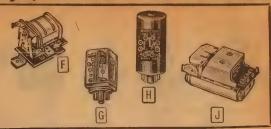
Miniature Relays. All types above also available in miniature sizexcept 115C150, 115C180, 115NO150, 115NO180. 9-pin, 3 x2 5 %. Shps wt., 3 oz. Specify type no., adding letter "T" following type number Example: 6NO2T.

Relays, Counters and Motors



SENSITIVE SIGMA RELAYS

Ruggedly Built For Wide Range of Applications



Type 4F. A wide selection of plate circuit relays for any 20 or 50 mw. sensitivity applicion. Unenclosed, with screw mounting, soltrerminal and coil lead connection. SPDT ntacts rated at 2 amps. For smoke detection, rglar alarms, etc. 1½x15/2x15/2x.3 oz.

No.	Mfr's Type	Ohms	Ma. DC	NET
P 377 P 378 P 379 P 285	4F-200-S/SIL 4F-1000-S/SIL 4F-2500-S/SIL 4F-5000-S/SIL 4F-8000-S/SIL 4F-10000-S/SIL	200 1000 2500 5000 8000 10000	10.0 4.5 3.0 2.0 1.6 1.4	6.05 6.05 6.35 6.60 6.60

Type 5F. General-purpose DC or AC, with balanced armature construction. SPDT matter construction. SPDT matter at 1 amp. Withstand shock up to 0 G. Units are unenclosed, with screw mounts and solder terminal connection. Size, 13/4x 6x111/6". Shpg. wt., 5 oz.

P 380 5F	-1000-S/SIL	1000	2.3	8.25
P 381 5F	-2500-S/SIL	2500	1.4	8.25
P 382 5F	-5000-S/SIL	5000	1.0	8.80
P 372 5F	-8000-S/SIL	8000	0.8	9.65
P 383 5F	-10,000-S/SIL	10,000	0.7	9.65

Model 8 RCO1A Photorelay. 5-pin plug-in base. Operates at 5 ft.-candles, or less. PDT contacts rated at 5 amps. 2¼" x 1½". r 120 v., 50-60 cycle AC. 5 oz. NET 15.00

Type 11F. Small, low-cost DC relay. 50 and 200 mw. sensitivity; SPDT contacts ted 1 amp. 11/22x11/6" high. Shpg. wt., 3 oz.

ock No.	Туре	Ohms	Ma.	NET
P 658	11F-250-G/SIL	250	14.0	1.75
P 659	11F-550-G/SIL	550	9.5	1.75
P 068	11F-1000-G/SIL	1000	7.0	1.75
P 069	11F-2300-G/SIL	2300	4.6	1.75
P 074	11F-6000-G/SIL	6000	2.9	1.95
P 075	11F-9000-G/SIL	9000	2.4	2.15

Type 11FZ. Small AC relays for positive on-off operation. SPDT contacts rated 1 amp at 28 VDC/120 V. AC. 11/32x11/16x11/16".

Stock	Mfr's	Coil	Opt'g.	NET
No.	Type	Volts	Voltage	EACH
76 P 547		6	4.8	2.50
76 P 488		12	9.0	2.50
76 P 549		24	18	2.50
76 P 568		120	75	2.95

E Series 22. Miniature hermetically-sealed relay. Silver contacts rated 2 amps for 28 V. DC or 120 V. AC resistive load. SPDT contacts at 12 to 40 mw sensitivity, except *DPDT at 20 to 80 mw. 13/4x1x1". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Ohms	Ma. DC	NET
76 P 384 76 P 385 76 P 386 76 P 387	22RJC-1000-G/SIL 22RJC-2500-G/SIL 22RJC-5000-G/SIL 22RJC-8000-G/SIL	1000 2500 5000 8000	4.5 2.8 2.0 1.6	13.00 13.50 14.00 14.50
76 P 388 76 P 389 76 P 390 76 P 391	22RJCC-1000-G/SIL* 22RJCC-2500-G/SIL* 22RJCC-5000-G/SIL* 22RJCC-8000-G/SIL*	1000 2500 5000	6.3 4.0 2.8 2.3	14.50 15.00 15.50 16.00

Series 41. SPDT contacts rated: *2; †5 amps. Sensitivity, 32 to 200 mw, DC; 0.06 to 0.4 VA, AC. 21/4x11/4x15/6". 3 oz.

Stock No.	Mfr's Type	Volts AC Ohms DC	Ma. DC	NET
	41FZ-10-ACG/SIL 41FZ-35-ACS/SIL	6 v. †		3.50
75 P 077	41FZ-200-ACG/SIL 41FZ-500-ACS/SIL	24 v. † 24 v. *	:	3.50 4.00
75 P 078	41FZ-5000-ACG/SIL 41FZ-10000-ACS/SIL	115 v.† 115 v.*		3.65
76 P 395	41F-5-S /SIL	5 ohms	90	3.65
76 P 397	41F-50-S/SIL 41F-200-S/SIL	50 ohms 200 ohms	30	3.85
	41F-1000-S /SIL 41F-5000-S /SIL	1K ohms 5K ohms	6.5 3.0	3.85
76 P 400	41F-10000-S/SIL	10K ohms	2.0	4.25

G Series 42. DPDT relay with octal plug-in base and dust cover. Operating power is from 100 to 200 mw on DC and 0.30 to 0.50, 60 cycle AC. Silver contacts rated 1 to 5 amps at 28 V DC or 120 V. AC for 100,000 operations. AC units are designed for 60 cycle operation. In Type No. indicates for AC. Withstand shock up to 100 G. Pin connections are on cover. 2½6x1½6x1½6x1½6°. Shog. wt., 4 oz.

Stock	Mfr's Type	V/Ohms	Ma.	NET
76 P 401 76 P 914 76 P 403 76 P 908	42ROZ-8-ACG/SIL 42ROZ-25-ACS/SIL 42ROZ-200-ACG/SIL 42ROZ-340-ACS/SIL	6 VAC 6 VAC 24 VAC 24 VAC		6.20 7.15 6.20 7.15
76 P 404 76 P 907 76 P 406 76 P 407	42ROZ-4000-ACG/SIL 42ROZ-7000-ACS/SIL 42RO-5-G/SIL 42RO-50-G/SIL	120 VAC 120 VAC 5 ohms 50 ohms	200	6.20 7.35 6.20 6.20
76 P 410	42RO-200-G/SIL 42RO-1000-G/SIL 42RO-5000-G/SIL 42RO-10000-G/SIL	200 ohms 1K ohms 5K ohms 10K ohms		6.20 6.20 6.40 6.60
			4 1 . 2 .	

H Series 72. Sensitive, magnetic latching relays for high speed switching, plus repeating, telegraphy up to 500 pulses per second-designed to withstand tremendous shocks. SPDT contacts rated 0.06 amp. Require 50 VDC and 15 ma. Have octal plug in base and removable dust cover. Trip Ma in table for either coil, either polarity. Size, 1%6x25%". Shpg. wt., 5 oz.

Stock No.	Mfr's Type	 EACH
76 P 912 76 P 913	72AOZ-160T S/TCP 72AOZ-160TG/TCP	33.00

26F-8000-CDS/PAL Relay. General-purpose unit similar to 5F series (above, left) but higher efficiency rating. Has SPDT contacts, rated 0.5 amp at 28 volts DC or 120 volts AC. 8000 ohm coil. Operating current, 0.7 ma. Shpg. wt., 7 oz. 75 P 284. NET.... 9.75

IT & T CONTACT PROTECTORS

fective protection for relay contacts controlling ductive circuits. Suppress arcing and RF transients. It loads operating up to 40 times per second, and drawing up to 600 ma erating current. Av. shpg. wt., 6 oz.

tock No.	lype	iviax. v.	iviax. ivia.	wiin. v.	Size	MEI
6 P 257	8A1PS1	26 AC	200	0 AC	25/64X5/8"	.89
6 P 328	8A2PS1	44 DC	250	23 DC	25/64X5/8"	.90
6 P 323	8A2PS2	52 AC	200	27 AC	25/64X3/4"	1.07
6 P 258	8A3PS1	66 DC	250	45 DC	25/64X3/4"	1.07
6 P 296	8A4PS1	88 DC	250	67 DC	25/64X3/4"	1.08
6 P 297	8A5PS1	110 DC	250	89 DC	25/64X3/4"	1.24
6 P 326	8A5PS5	130 AC	200	105 AC	25/32X15/16"	1.40
6 P 298	8A6PS1	132 DC	250	111 DC	25/64X15/16"	1.25
6 P 299	8A7PS1	154 DC	250	133 DC	25/64X15/16"	1.26
6 P 330	15A2PS1	44 DC	600	23 DC	1/2X5/8"	.94
6 P 348	15A3PS1	66 DC	600	45 DC	1/2X ³ /4"	1.14
6 P 356	15A5PS1	110 DC	600	89 DC	1/2 x 3/4"	1.36
6 P 327	15A5PS5	130 AC	400	105 AC	1/2 x 15/16"	1.56
6 P 364	15A6PS1	132 DC	500	111 DC	1/2 x 15/16"	1.37

URST SYNCHRONOUS MOTORS

ew CA Series—100 Inch-Ounce Reversle. For continuous timing applications in arm systems, displays, process controls, ... Instantly reversible with SPDT switch; maintain accuracy both clockwise and unter-clockwise. Torque: 100 inch-ounce at pm. Case, 2½" dia. x 2½". Shaft, ¾6" dia., long flattened. Power drain: 5 watts. For last v., 60 cycle AC. Shpg. wt., 18 oz. V Series—40-Inch-Ounce Unidirectoral. Shaded pole, clockwise rotation. Inant start at full torque of 40 inch-ounce at 1 m. Power drain: 5 watts. Case, 2½" dia. x 1¾". Shaft, ¾6" dia. by 1" ag. For 95-130 v., 60 cycle AC. Shpg. wt., 1 lb.

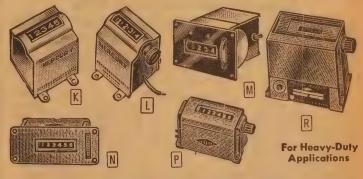
OUTPUT SPEEDS IN RPM

1/3	21/2	1 8 1	20	331/3	64	160	800
1/2*	3*	10*	24	40	80	200	1000
1*	4*	12	25	48	100	240	
11/2	5*	15*	30*	50	120	400	
2*	6*	16	32	60*	150	600	

PP | 54. CA Series. All speeds in table above available EACH 9.25

PP 152. SM Series. Available only in speeds indicated by sterisk in table above—Specify Speed...... EACH 9.08

GENERAL CONTROLS CO. COUNTERS



High-quality electric counters for commercial and industrial applications. For 60-cycle operation.

Prefix CE-40. Small counters for coin-operated devices and light to moderate-duty industrial applications. Minimum make time 0.04 sec., break time 0.06 sec. Rated at 600 CPM. Enclosed in tamper-proof case. Reset units count to 4 digits, non-reset to 5. Shpg. wt., 1 lb.

Prefix CE-600. Small counters for general industrial purposes. Have minimum make and break time of 0.030 sec. Enclosed in dust-resistant housing. Rated at 1000 CPM, 50-million count life. Have continuous-duty coils. 6 digits. Shpg. wt., 1 lb.

Prefix CE-800. Heavy-duty counter. For use on drill and punch presses, etc. Min. make and break duration, 0.03 sec. 1000 CPM. Tamper-proof aluminum case. 6 digits. Continuous duty coils. Wt., 5 lbs.

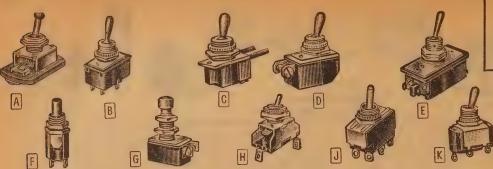
RESET TYPES

No.	Туре	Fig.	V. AC	Size	Mount	Mtg. Ctrs.	NET
77 P 099 77 P 049 77 P 043	CE-40BS402 CE-40AS402	M M L	120 120	115/16x213/16x227/64" 115/16x213/16x227/64" 231/64x123/32x21/4" 21/2x11/64x31/2"	Panel Base	19/16x27/16" 19/16x27/16" 11/8x115/16" 315/64x123/64"	15.95 15.95 15.25 21.40
77 P 237 77 P 238 77 P 239	CE-600AS602 CE-600BS601 CE-600BS602 CE-800CS602	P N N	120 24 120	2 ¹³ / ₁₆ x1 ⁷ / ₈ x4 ⁷ / ₁₆ " 2 ¹³ / ₁₆ x1 ⁷ / ₈ x4 ⁷ / ₁₆ " 2 ¹³ / ₁₆ x1 ⁷ / ₈ x4 ⁷ / ₁₆ " 4 ¹¹ / ₁₆ x3 ¹ / ₈ x5 ⁵ / ₈ "	Base Panel Panel	315/64x123/64" 41/16x11/2" 41/16x11/2" 51/4 x21/2"	21.40 22.90 22.90 43.00

NON-RESET TYPES

77	P	03	310	E-40AN502	K	120	1231/64X1	23/32x21/4"	Base	11/8 x 1 15/16"	5.15

Cutler-Hammer and Eagle Switches_



COMPLETE STOCKS OF SELECTED SWITCHES

A wide selection of finest quality, ruggedly built switches.





AC-DC TOGGLE SWITCHES LIGHT-DUTY TYPE

Light-duty toggle switches featuring exceptionally small size and unusually high ratings. Ideal for small motor loads, radios and many other similar applications. Quick make and break contacts are suitable for AC or DC use. Units are designed for convenient one-hole mounting on panels, housings and other flat surfaces of machines and appliances. Contacts are totally enclosed in an insulating black bakelite case. All have 13/2" diameter threaded stem. Solder lug terminals except *indicates 6" wire leads; †screw terminals. 7140-K6 is center-off type; rated 10 amps at 24 volts, DC. All are U.L. Approved. Av. wt., 3 oz.

	BB#-1-	1	1	Am	eres	Stem	NET	NET EACH	
Stock No.	Mfr's Type	Fig.	Action	125V	250 V	Length	1-9	10-Up	
34 B 522 34 B 527 34 B 749 34 B 500 34 B 528	8280-K14 8280-K15 8280-K16	ACCCC	SPDT SPST SPST SPST SPDT	3	3 3 3	11/ ₃₂ " 1/ ₄ " 11/ ₃₂ " 15/ ₃₂ " 1/ ₄ "	.45 .52 .52	.37 .43 .43 .43 .55	
34 B 501 34 B 783 34 B 784 34 B 785 34 B 786	8282-K14 8290-K15* 8290-K16* 8295-K7†		SPDT SPST SPST SPST SPST	3	1 3 3 3	15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ "	.64 .64 .64	.55 .52 .52 .52	
34 B 529 34 B 502 34 B 530 34 B 503 34 B 792	8360-K7 8363-K6 8363-K7	B B B B	DPST DPST DPDT DPDT DPST	6	3 3 3 3	1/4" 15/ ₃₂ " 1/4" 15/ ₃₂ " 15/ ₃₂ "	.95 1.09 1.09	.79 .79 .91 .91	
34 B 795 34 B 787	8373-K8 8375-K7†	B B D D	DPDT DPDT DPDT SPST SPST	6 6 6 6	3 3 3 3	15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ "	1.18 1.18 1.51 .60	.97 .97 1.24 .50	
34 B 788 34 B 789 34 B 791		CCD	SPST SPST SPST	6 6	3 3 3	11/ ₃₂ " 15/ ₃₂ " 15/ ₃₂ "	.72	.59	

STANDARD AND HEAVY-DUTY TYPES

For control of moderate horsepower motors on many small appliances and other similar applications. Incorporate C-H snuffer-type contact mechanism which is designed to minimize pitting caused by arcing on stalled rotor currents or by heavy overloads. Rugged bakelite base completely encloses the mechanism and terminals are separated by an insulating barrier. Have ¹⁵/₄₂" threaded stem. All switches are U.L. Approved except 8825-K5 (Fig. J) which is JAN S-23, series ST52; also rated 20 amps at 28 v. D.C. Av. shpg. wt., 3 oz.

Stock	Mfr's		Amperes				Stem	NET	EACH
No.	Туре	Action	125 V	250 V	Lgth.	1-9	10-Up		
34 B 545 34 B 408 34 B 520 34 B 718 34 B 516 34 B 714	7320-K3 7321-K2 7321-K3 7360-K7 7360-K8 7361-K5	DPST SPST SPST DPST DPST SPST	12 12 12 15 15	6 6 6 10 10	15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ " 15/ ₃₂ "	1.01 1.01 1.74 1.74	.83 .83 .83 1.44 1.44		
34 B 719 34 B 517 34 B 717 34 B 715 34 B 555	7402-K3 7402-K4 8680-K1 8690-K2 8825-K5	DPST DPST DPDT DPDT DPDT	1½hp 1½hp 10 15 20	20 20 5 10	11/ ₃₂ " 15/ ₃₂ " 11/ ₃₂ " 15/ ₃₂ " 15/ ₃₂ "	2.47 2.47 3.17 3.86 1.27	2.04 2.04 2.62 3.18 1.05		

PUSH-BUTTON AC-DC TYPE

For controlling current by opening or closing of a door; i.e., turn lights on and off in refrigerators, telephone booths, closets, etc. Momentary contact type. Have solder lugs except *screw type. Normally-open type is "on" with door closed; normally-closed type is "on" with door open. Have 15½" stem, black button, except †has ½" stem, red button; \$1½6" stem, push-push type (Fig. G); ‡½-inch stem length. U.L. Approved. Av. shpg. wt., 3 oz.

Stock	Mfr's		Amp	eres	NET EACH		
No.	Туре	Action	125 V	250 V	1-9	10-Up	
34 B 691 34 B 519 34 B 548 34 B 631 34 B 547 34 B 549	8411-K6† 8411-K8	SPST-N.O. SPST SPST-N.O. SPST-N.C. SPST-N.C.	6 6 .75 .75 .75	3 .25 .25 .25	1.07 .81 .36 .36 .25	.88 .68 .32 .32 .21	

SPST MIDGET TYPE

AC TOGGLE SWITCHES

LIGHT-DUTY TYPE (6A/125V-3A/250V)

Slow make and break AC switches. Simple contact structure d sign for long, dependable life. All are rated 6 amperes at 125 vol and 3 amperes at 250 volts. Single-pole switches are illustrated by Fi K; double-pole are Fig. J. †Indicates center-off positions. All har threaded stem diameter of 15/12"; stem length, 15/12". All switches are U. Approved. Av. shpg. wt., 3 oz.

Stock	Mfr's		_	NET	EACH
No.	Type	Action	Term.	1-9	10-Up
34 B 640 34 B 641 34 B 642 34 B 643	7580-K4 7580-K6 7581-K4† 7581-K6†	SPST SPST SPDT SPDT	Screw Solder Screw Solder	.52 .45 .60	.43 .38 .50
34 B 644 34 B 645 34 B 646 34 B 647	7582-K4 7582-K6 7590-K4 7590-K6	SPDT SPDT DPST DPST	Screw Solder Screw Solder	.60 .49 .81	.50 .41 .67
34 B 648 34 B 649 34 B 689 34 B 690	7591-K4† 7591-K6† 7592-K4 7592-K6	DPDT DPDT DPDT DPDT	Screw Solder Screw Solder	.96 .73 .96 .73	.79 .61 .79

STANDARD-DUTY TYPE (15A/125V-10A/250V)

Small, ruggedly built switches intended primarily for AC use. Proviling, dependable service. Reduction in arcing permits use of the slomake, slow break mechanism. All have 15/2" diameter threaded ster 15/2" long, except *11/2" long. †Indicates center-off. All have nominal ratio of 10 amperes at 250 volts AC and 15 amperes at 125 volts AC. All a U.L. Approved. Av. shpg. wt., 3 oz.

Stock	Mfr's .				NET	EACH
No.	Type	Fig.	Action	Term.	1-9	10-Up
35 B 932 34 B 591 35 B 933 34 B 534 34 B 592	7500-K13* 7500-K14 7501-K12* 7501-K13 7502-K13†	L L L K	SPST SPST SPST SPST SPDT	Screw Screw Solder Solder Screw	.60 .60 .52 .52	.50 .50 .43 .43 .59
34 B 796 34 B 593 34 B 536 34 B 594 34 B 537	7503-K13† 7504-K4 7505-K4 7560-K5 7561-K4	K K K J	SPDT SPDT SPDT DPST DPST	Solder Screw Solder Screw Solder	.60 .72 .60 .96	.50 .59 .50 .79 .67
35 B 934 34 B 596 34 B 539 34 B 595 34 B 538	7561-K5* 7562-K4† 7563-K4† 7564-K6 7565-K5	J J J	DPST DPDT DPDT DPDT DPDT	Solder Screw Solder Screw Solder	.80 1.19 .96 1.19	.67 .98 .79 .98
34 B 597 34 B 543 34 B 598 34 B 523 34 B 799 34 B 798	7610-K2 7611-K2 7612-K2† 7613-K2† 7614-K2 7615-K2	M M M M M	3PST 3PST 3PDT 3PDT 3PDT 3PDT	Screw Solder Screw Solder Screw Solder	1.93 1.66 2.45 2.04 2.45 2.04	1.60 1.37 2.03 1.69 2.03 1.69



ON-OFF PLATE

Type 827-228F3. Switch plate for "On-Off" indication toggle switches. Designed to fit slot in threaded stem. Scured in position by mounting nut of switch. Mounts vitically. Shog. wt., per pkg., 2 oz. 34 B 504. Per Pkg. of 2



EAGLE FLUSH-MOUNT PUSHBUTTON SWITCH

EAGLE KNIFE SWITCHES

Rugged, low-cost knife switches for heavy duty applications in power circuits. For motors, transmitters, mixing machines, or stage lighting. Provide smooth, easy action. All units rated 25 amps, 125 v. AC; with screw terminals and bakelite base except Type 617, porcelain. Av. shpg. wt., 5 oz.



Stock	Mfr's			NEI EACH		
No.	Type	Action	Size	1-9	10-U	
34 B 884	612	SPST	15/8×1"	.19	.17	
34 B 886 34 B 887	613	DPST	1 ³ / ₄ ×1 ¹ / ₂ "	.22	.29	
34 B 888 34 B 889	615	DPDT SPST	25/8×15/8" 31/16×11/8"	.36	.33	

GRAYHILL MINIATURE SWITCHES.

A Series 5000 Miniature Tap Switches. Single-cole switches; 2 to 9 posi-cions with built in stops or



Stock No.	Mfr's Type	Taps	NET
35 B 923 35 B 924 35 B 925 35 B 926 35 B 927	5-001-2 5-001-3 5-001-4 5-001-5 5-001-6	2 3 4 5	1.30 1.35 1.40 1.45 1.50
35 B 928 35 B 929 35 B 930 35 B 931	5-001-7 5-001-8 5-001-9 5-001-10	7 8 9 10	1.55 1.60 1.65 1.70

LOCKWASHERS. Cadmium-plated brass, with mium-plated lockwasher with internal teeth—for	non-turning tab; cad- Series 5000 switches
above. Shpg. wt., 1 oz. 34 B 723. Non-Turn Washer. EACH	

B	Type 40-1 SPST, norm	Lighted	Pushbutt Rated 1	ton Swit	ch. I 115 v	Momen . AC.	tary con 1-8/10"	ntact, long,
25/ 36	64" mtg. hole B 031. EAC	. Solder t	erminals.	Shpg. wt.	, 2 oz.			2.00

	Type 30-1 Subminiature Pushbutton S	witch.	SPST,	N.O. 1
34	Type 30-1 Subminiature Pushbutton S amp, 115 v. AC. 63/64"x3%" dia. Solder term., B 966. EACH	red butt	on, 2 oz	95
34	B 967. 30-2. As above, normally closed, black	ck butto	n. EAC	H95

	Type 39-1 Ultra-Miniature Switch. N.O., SPST. ½ amp, 11 AC. ¼" dia.x19/32" long. Solder term., red button. 2 oz.	15 v.
נט	AC. 1/4" dia.x19/32" long. Solder term., red button. 2 oz.	00
34	AC. ¼" dia.x19/32" long. Solder term., red button. 2 oz. B 968. EACH	.00

(E)	Type 35-1	DPST	Switch.	N.O.	1/2 amp,	115 v.,	AC. 1-17/6	4" long x
E	51/64" dia.	Solder	term., r	ed bu	tton. 2 c	Z.		120
34	B 964. EA	CH						20

OHMITE POWER-TAP SWITCHES

Rugged power tap switches for a wide variety of high-current applications. Single pole with up to 12 taps or positions. Non-shorting type with ¼" shafts, large silver contacts, ceramic body. Model 111 rated 10 amps at 150 VAC; diameter is 13¼". Model 212 rated 15 amps at 150 VAC; diameter is 2½". *Two-in-tandem types, rated same as single units. U.L. Approved. Shpg. wt., 111, 5 oz.; 212, 10 oz.



MODEL 111

MODEL 212

Stock No.	Taps	Rotation	NET	Stock No.	Taps	Rotation	EACH
34 B 226 34 B 227 34 B 228	3 4	30° 60° 90°	3.70 3.82 3.94	34 B 238 34 B 239 34 B 322	3 4 4*	60° 90° 90°	7.42 7.60 18.50
34 B 229 34 B 230 34 B 231	5*	120° 120° 150° 180°	4.06 11.42 4.18 4.30	34 B 240 34 B 241 34 B 321 34 B 242	5 6 6* 7	150° 150° 150° 180°	7.78 7.96 19.22 8.14
34 B 232 34 B 233	9	210° 240° 270°		34 B 243 34 B 244 34 B 245	9	210° 240° 270°	8.32 8.50 8.68
34 B 234 34 B 235 34 B 293	11 11*	300° 300°	4.78		12	330°	9.04

ECONOMY SLIDE SWITCHES

A selection of low-cost AC-DC slide switches. Ideal for general use in transmitters, receivers, instruments, and other electronic equipment. All have cadmiumplated steel housing, except *nickel-finished. Type S-110-S is a heavy-duty switch, rated 3 amps at 250 volts and 6 amps at 125 volts, AC or DC. Type S-316 is rated 1 amp at 250 volts and 3 amps at 125 volts, AC or DC. Type 81574 is a midget slide switch with black phenolic lever; requires only \(\frac{7}{6}\pi \text{1}\frac{7}{2}\pi' \text{cutout for installation.} \) All types other than S-110-S have hot-tinned solder lug terminals; Type S-110-S and S-316, which are 15\(\frac{6}{2}\text{x} \) 9\(\frac{7}{6}\text{x} \) 1\(\frac{7}{2}\text{".} \) U.L. Approved except \(\frac{7}{2}\text{".} \) Av. shpg. wt., 3 oz.



Stock No.	Mfr.	Mfr's Type	Action	A. @ 125V.	1-9, EACH	10-99, EACH
34 B 492	Continental-Wirt	G725	DPST	0.5	.1 7	.15
36 B 148	Continental-Wirt	G726	DPDT	0.5	.20	
35 B 937	Carling	S60K†	DPST	0.75	.19	.16
33 B 853	A-H&H	81574*	SPST	3.0	.24	.20
35 B 920	Continental-Wirt	G325	DPST	3.0	.22	.20
34 B 164	Carling	S-316	DPDT	3.0	.70	.63
35 B 921 35 B 922 34 B 422 34 B 423 34 B 148	Continental-Wirt Continental-Wirt Carling Carling Carling	G-326 G-369 S60A S60B S-110S	DPDT 3PDT SPST SPDT SPST	3.0 3.0 4.0 4.0 6.0	.22 .46 .10 .11	.20 .41 .09 .10 .44



POWER-TYPE TOGGLE SWITCHES

Compact, toggle-operated power switches for motors and appliances. Quick make and break with wiping blade action. Type 80600 rated 1 HP, 250 volts. U.L. Approved. Bakelite case. Screw terminals. Shank, 15/2" dia. 5/6" long. With mtg. nuts. Shpg. wt., 2 oz.

Stock	Mfr's	1	Am	ps	NET	EACH
No.	Туре	Action	125V	250V	1-9	10-Up
34 B 136 34 B 135 34 B 137	80600 80607 80618	DPST SPST SPDT	16 12 12	8 6 6	1.01	.83

ROTARY SWITCHES

Maintained contact, rotary switches for replacement or new equipment use in lamps, appliances, etc. Type 41047 is a direct replacement for many wall-type and desk-type lamps. It is equipped with 6" wire leads, has a brass finished metal handle, and a \(3/\epsilon'\) diameter shank \(3/\epsilon'\) long. Types 81715-G and 81727-G are ideal for medium current AC-DC appliances. They are equipped with solder lug terminals, a molded phenolic base, an \(1/\sqrt{2}\epsilon'\) diameter shank \(3/\epsilon'\) long, and a \(1/\epsilon'\) spindle projection \(7/\epsilon'\) long. Av. shpg. wt., 2 oz.

Carata	Mfr's		A CONTRACTOR	Amp	eres	NET	EACH
Stock No.	Type	Fig.	Action	125 V	250 V	1-9	10-Up
34 B 165 34 B 141 34 B 144	41047 81715-G 81727-G	G H H	SPST SPST DPDT	3. 6	1 3 3	.45 1.27 1.86	1.06

PUSH-BUTTON SWITCHES

All are momentary contact, except †push on-push off types. *Indicates normally open. AC-DC, except \$AC only. All have \$1\frac{5}{2}z''\$ diameter shanks; \$\frac{6}{6}z''\$ long, except Type \$0630, \$\frac{7}{6}z''\$ long. All have solder lug terminals except \$0630 which has screw type terminals. Av. shpg. wt., 3 oz.

Circle	DAG-1-			Button				EACH
Stock No.	Mfr's Type	Fig.	Action	Color	Amps	Volts	1-9	10-Up
34 B 24 34 B 29	3391-GL 3392 3392-AE 3392-AE 3592	J J J K	SPST* SP2 SP2 SP2 SP2 SPST*	Black Black Red	1 1 1 3	125 § 125 § 125 § 125 § 250	.74 .73 .90 .90	.61 .60 .75 .75
34 B 160 34 B 161	80630 86710 86710-C 86710-C	L K J J	DPST* SPST† SPST† SPST†	Red Black	16 3 3 3	125 250 250 250 250	1.49	1.23 .78 .92 .92

LOCK SWITCHES

Extra Key for above. Shpg. wt., 2 oz. 34 B | 28. NET.....

SPST SLIDE SWITCH

Type 81569 Slide Switch. SPST indicating switch designed for use in instrument, control panel, and appliance applications. Screw-type terminals. Requires 13/8x%/6" cutout for mounting. Ratings: 3 amps at 250 volts; 6 amps at 125 volts. Switch plate is 23/6x3/4". Phenolic base and lever. U.L. Approved. Shpg. wt., 2 oz.
34 B 153, 1-9, NET EACH.



ON-OFF SWITCH PLATES

N For Toggle or Rotary Switches.

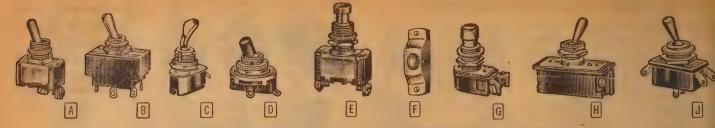
N 11/8" dia. polished aluminum plate.
Has 1/2" hole. Etched on black background. Shpg. wt., 2 oz.
34 B | 5| . 1-19, NET EACH......39
20-Up, EACH......34











CARLING TOGGLE AND PUSHBUTTON SWITCHES

MOMENTARY AC TOGGLE SWITCHES 15A/125 V.—10A/250 V.

A selection of dependable bat-handle toggle switches designed for AC applications. Circuit maintained only while switch handle is held in position. A spring returns handle to normal position when handle is released. Excellent for test equipment, control panels, instrumentation, etc. *3-position with center "Off," momentary either side. †3-position with center "Off," one side momentary, other side maintained. Others are 2-position, normally off. Handle is 11/6" long. Stem length, 15/2"; dia., 15/2"-32 thread. Screw terminals. U.L. Approved. Shpg. wt., 3 oz.

Stock No.	Fig.	Action	1-9, EACH	10-99, EACH
34 B 056 34 B 388	A	SPST n.o. SPDT*	.68	.61
34 B 059 34 B 062	A	SPDT† DPST n.o.	.78	1.00
34 B 065 34 B 392	B	DPDT* DPDT†	1.22	1.10

MOMENTARY AC-DC **TOGGLE SWITCHES**

SPST with trigger handle. Ideal for use in instrumentation, test equipment, control panels, etc. Normally open; momentarily on, spring return. Lugs are silver-plated. AC-DC rating: 6 amps, 125 volts; 3 amps, 250 volts. Stem length, 15½. Stem dia., 15½. 32 thread. U.L. Approved. Shpg. wt., 3 oz.

34 B 149, 1-9 ... EACH .68
10-99 ... EACH .61

PLASTIC-TOGGLE AC SWITCHES

Extremely compact heavy-duty SPST switches for limited space applications. Require only ½" behind panel, Ideal for use in instrumentation, test panels and other electronic equipment. Available in two colors, black and red, for easy identification. Rated at 15 amps, 125 VAC; 7½ amps, 250 VAC; ½-HP 115-23 VAC. Solder lug terminals. 15/32"-32 threaded stem; ¼" stem length. U.L. Approved. Shpg. wt., 2 oz.

NET EACH Stock Color 10-99

PUSHBUTTON SWITCHES

Black Red

Low-priced, high-quality single-pole, single-throw switches with convenient pushbutton operation. Ideal for use in test equipment, control panels, instrumentation, etc. All are momentary contact, normally open switches, except * which is normally closed, and † which is a "push-push" type (maintains open or closed contacts). Stems ½2" dia., ¾6" long. §Doorbell type; black with white button. 2½x¾4" with 2" mounting centers. All switches have screw terminals. Av. shpg. wt., 3 oz.

Stock	Fig.	Amı	peres	NET EACH		
No.	rig.	125 V	250 V	1-9	10-99	
35 B 935	E	15	10	.64	.60	
35 B 936		15	10	.64	.60	
34 B 168	G†	6	3	.95	.85	
35 B 527	F	8 :	l § l	-15	1 .12	

WALSCO KNURL-TITE **SWITCH WRENCHES**



Extremely convenient nut-driver for knurled or milled-edge nuts. Has collet-type pressure jaws—½ turn of handle gives vise-grip. Will grip nuts ±½" of nominal size. With hollow barrel. Length: 6½". Wt., 10 oz.

Stock No.	Mfr's Type	Dia. of No	HE EACH
34 B 089	2581	3/8"	4.83
34 B 090	2582	1/2"	
34 B 091	2583	5/8"	

AC AND AC-DC TOGGLE SWITCHES

A large selection of rugged, highly dependable toggle switches for a wide range of medium and heavy-duty power applications. Choose from 2-07 actions switches with a variety of actions. All toggle switches in tables below are maintained-contact style. Have bat handles, 15/12"

AC TYPES-2-POSITION-NO CENTER

Stock	P**	Action	Amperes		NETEACH	
No.			125 V	250 V	1-9	10-99
34 B 83		SPST	15	10	.48	.43
34 B 385		SPST	15	10	.54	.49
34 B 425		SPDT	15	10	.54	.49
34 B 386 34 B 187		SPDT	15 15	10	.65	.58
34 B 389		DPST	15	10	.86	.77
34 B 188		DPDT	15	10	.86	.77

AC TYPE-3-POSITION-CENTER OFF

Stock	F	Action	Amp	eres	NET EACH		
No.	rig.		125 V	250 V	1-9	10-9	
34 B 184		SPDT	15	10	.54	.40	
34 B 387		DPDT		10	.65	.5	
34 B 167 34 B 391				10 10	1.08	.9	

stem length, except *ball handle with 1/8" stem length. Stem diameter is 1½2"-32 thread on al toggle switches. †Indicates switches having screw terminals with 6-32 binding-head screws thas wire leads; all others have solder lugs U.L. Approved. Av. shpg. wt., 3 oz.

AC-DC TYPES-2-POSITION-NO CENTER

Stock	Fin	Action	Amp	eres	NET	EACH
No.	rıy.	Action	125 V	250 V	1-9	10-99
34 B 093	J*	SPDT	3	1	.62	.56
34 B ! 77	Ĵ	SPDT	3 3	1	.51	.46
34 B 178	Ĵ.	DPST	3	1	.70	.63
34 B 094	J*	DPST		1	.81	73
34 B 179	J	DPDT	3	1	.78	.70
34 B 095		DPDT	3	1	.89	.80
34 B 092	J*	SPST	6	3 3	.54	.49
34 B 180	I	SPST	6	3	.46	.41
34 B 175	J	SPST	6	3	.43	.39
34 B 096	J	SPDT	6	3 3	.62	.56
34 B 097	J	DPST	. 6	3	.78	.70
34 B 098	J	DPDT	6	3	.86	.78
34 B 380	H	SPST	12	6	.89	.80
34 B 181	H	DPST	12	6	.89	.80
34 B 379	H	SPST	15	10	1.49	1.34
34 B 182	H	DPST	15	10	1.49	1.34

ACRO SWITCHES









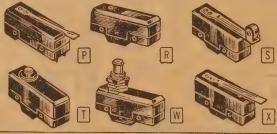
- Top Quality
- Small in Size
- Shock-Resistant

MINIATURE SNAP-ACTION SWITCHES

Top quality SPDT switches for a wide variety of applications where switches are actuated mechanically. Type ICMD1-2AXX-A22 has wire leaf actuator; Type 2CMD1-2AXX-A24 has a flat leaf actuator; all others are basic pin

plunger types. Operating force given in grams and oz.; pre-travel in inches. Current ratings are at 125-250 VAC and are U.L. and C.S.A Approved. Shock resistant with extremely long life. Solder terminals. Av. shpg. wt., 4 oz.

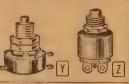
Stock No.	G & Mfr's Type Type	Fig.	Oper. Force	Pre- travel	Basic Switch Size	Amps.	1-9	ACH 10-19
	2MD3-1A 1CMD1-2AXX	K K L	3-6 oz. 6-10 oz. 20-27 gr.	1/32 1/32 .040	15/8 x9/32 x53/64" 15/8 x9/32 x53/64" 15/8 x9/32 x13/64"	10 10 3	1.45 1.45 1.45	1.31
35 B 024	2CMD1-2AXX 1CMD1-2AXX-A22 2CMD1-2AXX-A24	L N M	33-44 gr. 2.5 gr. 4 gr.	.040 .750 .750	15/8 x 9/32 x 13/64" 31/32 x 9/32 x 15/8" 29/32 x 29/32 x 119/32"	3 3 3	1.45 1.75 1.75	1.31 1.58 1.58



B SERIES SWITCHES WITH MICRO EQUIVALENTS

Popular, long-life replacements for micro-switch types shown in table below. All are SPDT with step base design and screw terminals except Type BRD2-5L, with flat base and solder terminals. Table shows operating force and pre-travel necessary to actuate switch. Contacts rated 15 amps at 120-240-480 VAC and 0.5 amp, 120 VDC. Av. shpg. wt., 4 oz.

	ock	Mfr's	Micro	Fig.	Oper.	Pre-	Basic	NET	EACH
	lo.	Туре	Equiv.	· ·g.	Force	travel	Switch Size	1-9	10-19
		BRD2-5L	BZ-2RL	P	4-5 oz.	.156"	213/32×11/32×11/16"	1.65	1.49
		BRD2-1A-1S	BZ-2R-A2	R	9-13 oz.	.020"	115/16x31/32x11/16"	1.65	1.49
		BRD2-2M-1S	BZ-2RL2-A2	S	5 oz.	.156"	215/32×115/32×11/16"	2.25	2.03
		BRD2-5L-1S	BZ-2RL-A2	T	5 oz.	.156"	213/32x13/32x11/16"	1.75	1.58
		BRD2-70-1S	BZ-2RD-A2	W	9-13 oz.	.010025"	115/16×13/16×11/16"	1.95	1.76
33 =	3 973	BRD2-1P-1S	BZ-2RQ1-A2	X	9-13 oz.	[.010025"]	127/32×115/16×11/16"	3.55	3.20



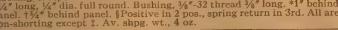
SNAP-ACTION PUSH-BUTTON SWITCHES

Top quality, panel mounting, momentary contact push-button switches. Type 3DO5-5P is normally open; Type 3DC5-5P is normally closed; Type QPD-5031 may be wired either way. All are overtravel plunger types with solder lug terminals. Current ratings at 125 VAC. Table shows operating force and pre-travel necessary to actuate switch. With mtg. hardware. Av. shpg. wt., 4 oz.

Stock	Mfr's	Fig.	Oper.	Pre-	Action	Size	Amne	NET	EACH
No.	Туре	Туре		travel			No. of Concession, Name of Street, or other Desires, Name of Street, Original Property and Name of Street, Nam		10-19
35 B 028	CPD-5031 3DO5-5P	2	8 oz. 10-15 oz.	.050"	SPDT	³ / ₃₂ x ² / ₃₂ " dia. ⁵ / ₈ x ² / ₃₂ " dia.	10	1.50	
	3DC5-5P	Ž		.0306"	SPST	5/8 x ² 9/ ₃₂ " dia.	12	1.75	1.58

INIVERSAL AND INTERCOM SWITCHES

ligh-quality rotary action switches. Have laminated henolic sections %" thick. Voltage breakdown is 1000 olts rms to ground. Rating: 2.75 amp at 15 v. DC; 230 at at 115 v. AC. Metal is cadmium-plated. All are 30° udexing except 1443 and 1445 which are 15°. Shafts, ¼" long, ¼" dia. full round. Bushing, ¾"-32 thread ¾" long. *1" behind anel. †¾" behind panel. §Positive in 2 pos., spring return in 3rd. All are ion-shorting except ‡. Av. shpg. wt., 4 oz.



Stock No.	Туре	Description	1-4, EA.	5-9, EA.
34 B 085	1450†	4PDT	1.26	1.05
34 B 087	1451†	4PDT, spring-return	1.44	1.20
34 B 071	1448*	6P, 3 pos., spring-return	1.98	1.65
34 B 072	1449*§	6P, 3 pos.	1.98	1.65

INTERCOM AND RADIO SWITCHES

cotary switches for use in radio-phonos, P.A. channel selectors, meter witching, intercom talk-listen and speaker switching. Silver-plated pring brass clips; cadmium-plated metal parts. Rated 2.75 amps at 15 v. DC; 230 ma @ 115 VAC. Shaft, 1/4" dia., 2/4" long. Shorting contacts xcept *non-shorting. †3 active positions with 5 amp., 110 v. AC switch. 472 is for AM-FM-phono selector use. Av. shpg. wt., 5 oz.

34 B 080 34 B 081 34 B 082	1460 1461 1462	SPDT phono-radio switch. SP-3-position selector DPDT bandswitch	1.08	.90
34 B 083 34 B 084 35 B 235	1463* 1464* 1472*	SPDT spring return DPDT spring return DP 3-position	1.08	.90
34 B 073	1465†	SP-4-position W/AC sw.	1.80	1.50

LEVER-ACTION SWITCHES

Oress up your equipment with these quality switches. *Spring return. †Positive indexing. PA-7004 and PA-7005 are both. Rated 2.75 amps @ 15 v., DC; 230 and @ 115 v., AC. Two 4-40 mtg. holes. With knob and hdwe. 2x5/6x13/6" behind panel. 4 oz.



Shorting	Non-S	horting	Dalas	Den	NEI E.	ACH
tock No. Type	Stock No.	Туре	Poles	Pos.	1-4	5-9
34 B 000 PA-7000† 34 B 001 PA-7002* 34 B 002 PA-7004* 34 B 003 PA-7008* 34 B 004 PA-7010†	† 34 B 007 † 34 B 008 34 B 009 34 B 010	PA-7007† PA-7009*	2 2 2 2 4 4	3 3 4 2 2 2	1.05 1.26 1.26 1.05 1.26 1.05	.88 1.05 1.05 .88 1.05

MOUNTING PLATES. For single or multiple mounting of lever-action switches. Black wrinkle finish steel. *Chromeplated. Av. shpg. wt., 4 oz.



Stock No.	Туре	Switches	Size	1-4, EA.	5-9, EA.
34 B 050 34 B 051 34 B 052 34 B 053 34 B 060 34 B 061	P1755 P1756 P1757 P1758 P221* P222*	1 2 3 4 2 1	3/4 x 25/8" 1 1/2 x 25/8" 2 1/4 x 25/8" 3 x 25/8" 2 3/4 x 4 1/2" 2 3/4 x 4 1/2"	.30 .30 .30 .30 .63	.25 .25 .25 .53

SERIES 1400 SWITCHES—PHENOLIC INSULATION

Laminated phenolic-insulated rotary switch for use in band change and general tap switch applications. Compact design. Size: 15/2x17/8" dia. Bushings, 3/2x3/8". Shafts, 21/4".

FMS 1/2" spacing between sections, except 1" on 3 and 4-section switches. Rating: 2.75 amps at 15 v. DC; 230 ma at 115 v. AC. Has positive 30° indexing. With mtg. nut, washer, 1/4" knob. Av. shpg. wt., 6 oz.

Shorti	Shorting Non-Sho		rting	Sec-	Total	Pole	NET	EACH	
Stock No.	Туре	Stock	No.	Туре		Poles	Pos.	1-4	5-9
35 B 182 35 B 183 35 B 184	1400 1402 1404 1408	35 B 35 B 35 B 35 B	163 164 165 166 167	1401 1403 1405 1407 1409	1 1 1 1 1	1 2 3 4	2-6 2-11 2-5 2-3 2	2.52	2.10
35 B 187 35 B 188 35 B 189	1410 1412 1414 1418	35 B 35 B	168 169 170 171 172	1411 1413 1415 1417 1419	2 2 2 2 2 2	2 2 4 6 8	2-6 2-11 2-5 2-3 2	3.06	2.55
35 B 197	1430	35 B 35 B 35 B	74 75 78	1423 1425 1431	3 3 4	3 6 8	2-11 2-5 2-5	3.90 3.90 4.50	3.25 3.25 3.75

-270 Series. Shaft and Index Assemblies. Complete hardware for 400 Series switches, above. Also fits 2500 series steatite sections.

Stock No.	Туре	Shaft	Sections	1-4, EA.	5-9, EA.
35 B 497	P-270	2"	1-3	1.65	1.38
35 B 498	P-271	4"	3-5	2.10	1.75
35 B 499	P-272	8"	5-10	2.85	2.38

EDCO WALL SWITCHES

Delayed-Action Wall Switch. Perfect for installation in porches, garages, stairwells, etc. Light stays on almost a full minute after switch is snapped off. Fits standard switch box. Rated 10 amps, 125 VAC. U.L. Approved. 5 oz.



MINIATURE STEATITE SWITCHES

PA-2000 Series. Precision ceramic rotary switches. High Q, low-loss steatite body. rated 2.75 amps @ 15 v. DC, 230 ma @ 115 v. AC. Oval-shaped, 1½x1½6" diameters; ½" spacing between sections. 30° indexing. Shaft 2½" FMS long, ½" diameter; bushing ¾"-32 thread, ¾" long. *2042 has 1 off and 9 progressively shorting positions. Have adjustable stop. Include put lock washer and 1½" black pointer knob. Av. wt., 6 oz.

nut, lock washer	nut, lock washer and 11/4" black pointer knob. Av. wt., 6 oz.										
Shorting	Non-Shorting	Sec-Total	Pole	NET E	ACH						
Stock No. Type	Stock No. Type			1-4	5-9						
35 B 095 *2042		1 1	2-10	2.16	1.80						
34 B 900 2000 34 B 901 2002	34 B 921 2001 34 B 922 2003	1 2	2-12 2-6	2.37	1.98						
	34 B 923 2005	2 2	2-12	3.39	2.83						
34 B 903 2000	34 B 924 2007	1 3	2-5	2.37	1.98						
	34 B 925 2009 34 B 926 2011		2-12 2-6	4.32	3.60						
	34 B 926 2011 234 B 927 2013	2 4 4	2-12	5.19	4.33						
34 B 907 2014	134 B 928 2015	1 5	2-3	2.37	1.98						
	34 B 929 2017		2-12	6.21	5.18						
	34 B 930 2019 34 B 931 2021		2-5	2.37	1.98						
	234 B 932 2023	3 6	2-6	4.32	3.60						
5.4 5.015 .000	34 B 933 2025		2-12	7.20	6.00						
	34 B 934 2027		2-6	5.19	4.33						
	D 4 D 00 4 00 24		2-5	4.32	3.60						
	. 34 B 940 2039	3 15	2-3	4.68	3.90						
	. 34 B 941 2041	3 18	2	4.68	3.90						

MINIATURE PHENOLIC SWITCHES

PA-1000 Series. Rated 2.75 amps @ 15 v. DC, 230 ma @ 115 v. AC. 30° indexing adjustable stop. 1½x1¾6″ diameters; ½″ spacing between sections. Shaft, 2¼″ FMS x¼″; bushing ¾x¾8″ Adjustable stop. Mtg. hardware and 1¼″ pointer knob. Shpg. wt., 5 oz.



Shorti	ng	No	n-Sho	rting	Sec-	Total	Pole	NET EACH		
Stock No.	Туре	Sto	ck No.	Type		Poles	Pos.	1-4	5-9	
35 B 050	1000	35	B 065	1001	·1	1	2-11	1.80	1.50	
35 B 051	1002		B 066	1003	1	2	2-5	1.80	1.50	
35 B 052	1004		B 067		2	2	2-11	-2.58	2.15	
35 B 053	1006		B 068		. 1	3	2-3	1.80	1.50	
35 B 054	1008	35	B 069	1009	3	3	2-11	3.24	2.70	
35 B 055	1010	35	B 070	1011	1	4	2	1.80	1.50	
35 B 056	1012	135	B 071	1013	2	4	2-5	2.58	2.15	
35 B 057	1014	35	B 072	1015	4	4	2-11	3.81	3.18	
35 B 059	1018	35	B 074	1019	2	6	2-3	2.58	2.15	
35 B 060	1020	35	B 075	1021	3	6	2-5	3.24	2.70	
		35	B 077	1025	2	8	2	2.58	2.15	
35 B 063	1026	35	B 078	1027	4 .	8	2-5	3.81	3.18	

SEPARATE ASSEMBLIES FOR MAKING MINIATURE SWITCHES

Type PA Phenolic Sections Only. Carry the same ratings as above miniature switches. Excellent RF characteristics. Adjustable stop. Use with PA 300 series index assemblies below. With hardware 2 oz

Shorting Non-S		Non-Sho	horting Total		Pole	NET EACH	
Stock No.	Туре	Stock No.	Type	Poles	Pos.	1-4	5-9
35 B 080		35 B 085		1 2	2-11 2-5		
35 B 081	32 34	35 B 086 35 B 087	33 35	3	2-3	.8/	./3
35 R 083	36	35 B 088	37	4	2		

Type PA Steatite Sections Only. Custom and standard switches can be assembled by using these sections. For use with PA-300 Series index assemblies, shown below. Adjustable stop. Shpg. wt., 2 oz.

Shortin	Shorting Non-Shorting		rting	Total	Pole	NET EACH		
Stock No.	Туре	Stock	No.	Туре	Poles	Pos.	1-4	5-9
35 B 040 35 B 041 35 B 042 35 B 044 35 B 238 B	PA-2 PA-4 PA-8	35 B 35 B	046 047 049	PA-3 PA-5 PA-9	1 2 3 6 2	2-12 2-6 2-5 2 2-11	1.20	1.00

PA-300 Series. Shaft and Index Assemblies. Contains index, pointer knob, adjustable stop plate, spacers and fiber washers, tie bolts, nuts, lock washers and instructions. 30° indexing. Shpg. wt., 3 oz.

Stock	Mfr's	Shaft		NET EACH		
No.	Туре	Length	Sections	1-4	5-9	
35 B 092 35 B 093 35 B 094	300 301 302	2" 4" 6"	1-3 4-6 7-9	1.38 1.80 2.37	1.15 1.50 1.98	

2500 SWITCHES—STEATITE INSULATION

Rotary switches. Excellent for RF use. Switch, 15/x 11/4" diameter. 1/4" spacing between sections for 1 and 2 section switches; 1" spacing for switches over 2 sections. Bushing, 3/4" dia.x3/4" long. Shaft, 21/4". Positive 30° index; adjustable stop. Includes mounting nut, lockwasher, and 11/4" black pointer knob. Av. shpg. wt., 6 oz.

Shorti	orting Non-Shorting Sec-		Total	Pole	NET EACH			
Stock No.	Туре	Stock No.	Туре		Poles		1-4	5-9
35 B 214 35 B 215 35 B 216 35 B 217	2500 2502 2504 2506	35 B 225 35 B 226 35 B 227 35 B 228	2501 2503 2505 2507	1 1 1	1 2 3	2-6 2-11 2-5 2-3	2.82	2.35
35 B 218 35 B 219 35 B 220	2510 2512 2514	35 B 229 35 B 231 35 B 232	2511 2515 2517	2 2 2 2	2 2 4 6	2-6 2-11 2-5 2-3	4.02	3.35
35 B 223	2522	35 B 201	2523	3	3	2-11	5.16	4.30

Gang Switches, Foot Switches and Timers___

MALLORY GANG SWITCHES

3100J AND 3200J SINGLE-GANG SWITCHES



Compact, enclosed, low-voltage switches. Have 2° notched shaft; $\frac{3}{6}$ " threaded bushing, $\frac{3}{6}$ " long. With bar knob and nut. All $1^{1}/_{6}$ " base dia. types have adjustable stops. For band switching, etc. Use dial plates listed below. Shpg. wt., 4 oz.

Shorting		Non-Shorting		Deles	Posi-	Base	NET EACH		
Stock No.	Type	Stock	No.	Туре	Poles	tions	Dia.	1-4	5-9
34 B 300 34 B 301 34 B 302 34 B 303 34 B 304	3115 J 31112 J 3122 J 3123 J 3126 J	34 B 34 B 34 B	350 351 352 353 354	3223J	1 2 2	5 12 2 3 6	1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4"	1.02	.85
34 B 305 34 B 306 34 B 307 34 B 309 34 B 310 34 B 311	3134J 3142J 3143J 31117J 3129J 3136J 3163J	34 B 34 B 34 B 34 B	355 356 357 358 359 360 361	3242J 3243J 32117J 3229J	2	2 3 2-17 2-9 2-6 2-3	11/4" 11/4" 11/4" 11/16" 11/16" 11/16"	1.05 1.05 1.56 1.56 1.65	



DIAL PLATES

Wide selection of dial plates for switches, potentiometers and rheostats. Types 372 to 390 for switches 1200L, 1300L and for 3100J and 3200J with 11% bases; 453 to 486 for switches 3100J and 3200J with 11% bases. Etched aluminum. Black background. 11% dia. % hole. Shpg. wt., 2 oz.

FC	OR 11/4" BA	ASE SW		· FC	OR 111/16" I	BASE S	
Туре	Marking	Туре	Marking	Туре	Marking	Туре	Marking
372 373 374 375	1 to 2 1 to 3 1 to 4 1 to 5	384 385 386 387	Off 1 to 4 Off 1 to 5 Off 1 to 6 Off 1 to 7	453 454 455 456	1 to 3 1 to 4 1 to 5 1 to 6	474 475 476 477	Off 1 to 4 Off 1 to 5 Off 1 to 6 Off 1 to 7
376 377 378 379	1 to 6 1 to 7 1 to 8 1 to 9	388 389 390	Off 1 to 8 Off 1 to 9 Off 1 to 10	457 458 459 460	1 to 7 1 to 8 1 to 9 1 to 10	478 479 480 481	Off 1 to 8 Off 1 to 9 Off 1 to 10 Off 1 to 11
380 381 382 383	1 to 10 1 to 11 1 to 12 Off 1 to 3			461 462 467 473	1 to 11 1 to 12 1 to 17 Off 1 to 3	482 483 484 486	Off 1 to 12 Off 1 to 13 Off 1 to 14 Off 1 to 16
34 BE	3 600. Sp	ecify 7	Гуре.	34	BB 650. S	Specify	Type. 10

FOR POTENTIOMETERS AND RHEOSTATS

Stock No.	Туре	Description	NET
34 B 670	369 391	0-100 plate for volume control Increase type plate for volume control	.21
34 B 622	393	0-10 plate for rheostats and pots	.21
34 B 624 34 B 623	396 394	0-10 plate for wire-wound controls 1-24 position; 15° opening	.21



34 BB 600, Specify Type.





RECORA TYPE NF-2 "NEPTUNE" SWITCH

Easy-operating switch that can be operated by foot or toe. Frees hands for work. SPST contacts are rated 7 amps at 110 v. Waterproofed for indoor or outdoor use. Durable brown plastic. With 6-ft. cord. Size, 3/2x6x8". Shpg. wt., 2 lbs. 5.49

78 B 293. TYPE PS N-2. As above, but plug-socket lets switch plug into AC, controlled unit plugs into socket. NET...............6.27

RECORA "SWITCHMATS"

Similar to "Neptune" above, except larger. Durable, corrugated brown vinyl-plastic mat conceals normally-open SPDT switch. Sensitive to forces over 5 lbs. For indoor or outdoor use. For 110 v. non-inductive loads up to 100 watts. 3/6" thick. 10-ft. cord.

78 BX 355. 14x23". Shpg. wt., 14 lbs. NET.

LINEMASTER MODEL T-51-S "TREADLITE"

Compact foot switch for low amperage loads, SPDT momentary-contact switch is rated 7 amps at 110-250 v; Rubber treading; skid-proof rubber base. Black crackle casing 1x25/8x1/2". 7 oz. 2.75

LINEMASTER MODEL 491-SC "COMPACT"

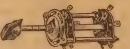
1200L AND 1300L MULTI-GANG SWITCHES



Versatile multi-gang switche for servicing and industrial ap plications. Have 1 fixed and adjustable stop, silver-plater

adjustable stop, silver-plated contacts, solid silver rotor contacts, solid silver rotor contacts, solid silver rotor contacts slugs, and phosphor-bronz springs. 3- and 4-gang spaced 1" all others ½". 2" notched shaft all others ½". 2" notched shaft shaft with additional "off" positions with all circuits open. Av. shpg. wt., 8 oz

Shorting Non-Shorting		rting	Gangs	Total Poles	Pos. Per	NET EACH			
Stock No.	Туре	Stock	No.	Type	1	Poles	Pole	1-4	5-9
34 B 202 34 B 203	1211L 1215L* 1213L* 1212L*	34 B	253	1311L 1315L* 1313L* 1312L*	1 1 1 1 1	1 2 3 4	2-11 2-5 2-3 2	2.10	:1.75
34 B 207 34 B 208	1221L 1225L* 1223L* 1222L*	34 B		1321L 1325L* 1323L* 1322L*	2 2 2 2	2 4 6 8	2-11 2-5 2-3 2	2.58	2.15
34 B 212 34 B 214	1235L*	34 B	264	1331L 1335L* 1341L 1345L*	3 4 4	3 6 4 8	2-11 2-5 2-11 2-5	3.24 3.24 3.81 3.81	2.70 2.70 3.18 3.18
34 B 217	1261L	34 B 34 B 34 B 34 B	267 268	1351L 1356L 1361L 1366L	5 5 6 6	5 10 6 12	2-11 2-6 2-11 2-6	4.11 4.53 4.83 5.52	3.43 3.78 4.03 4.60



151L "HAMSWITCH"

13124L 24-POINT TAP SWITCH

RB254 UNIVERSAL MOUNTING BRACKET

"L" shaped Universal Mounting Bracket for baseboard or rear support mounting of all Mallory circuit selector switches, volume controls and jacks. Shpg. wt., 2 oz.

34 B 420. NET.

"MARK-TIME" TIMERS









29000

MODEL 29000 "CLOCK WATCHER"

78105 PROFESSIONAL TIME SWITCH

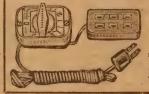
Turns off current at any pre-set time up to 1 hr. 10 amps. 6-ft. cord 33%x3x3½". For 110-125., 60-cycle AC. 1 lb. 5.9½ MODEL 78174 PHOTO TIME SWITCH. As above, but for period to 60 seconds. Adjustable stop for repeat settings.

6.72

STANDARD BUILT-IN TIME SWITCHES

SPDT switch easily set for "off-type" or "on-type" use. Simple installation. With home 28 amps 125-240 VAC J. L. Approved

Stock No.	Туре	Timing Range	Dia. x Depth	Lbs.	NET
78 B 259 78 B 261 78 B 268	74701 74702 74703	0 to 15 min. 0 to 30 min. 0 to 60 min.	29/16×119/32"	1 1 1	5.96 5.96 5.96



TEC-4 AUTOMATIC TIMER

Functional and economical—serves as both extension cord and time switch. Insert up to 3 devices into outlets and set knob for up to 4-hr. "on" cycle. Shuts off at end of cycle automatically. 10 amps. Cream and gold. 1 lb. 5.21

SWITCHCRAFT QUALITY SWITCHES

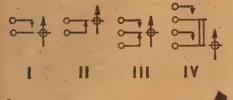
FF SWITCHES

Non-Locking Pushbutton
Type Switches with flat
frame construction adaptable to any stack of contact springs. Rated at 3
amps, 120 v., AC. Black
button and shaft. 1/8" dia. threaded bushing,
3/8" long. With nut and washer. §n.o. or n.c.
means normally open or normally closed. 3 oz.

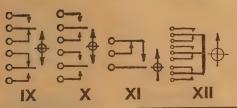


Stock		Mfr's	Action	§	NET
ŭ	No.	Туре	Poles	Diag.	EACH
34	B 994 B 995 B 996	1002	SPST n.o. SPST n.c. SPDT	III III	.62
34	B 997 B 999 B 969	1006	DPST n.o. DPDT 3PDT	IV V XII	.76 .91 1.23

SWITCHCRAFT SCHEMATIC DIAGRAMS







"LEV-R" TYPE SWITCHES



Ultra-Compact
Lever Switches.
Choose either locking type or momentary contact, spring return type. Silver contacts rated @ 3 amps, 120 v., AC, non-inductive load. Length, 31%4"; width, 5%". §n.o. means normally open. *3-position switch. With locknut; require 15½" mtg. hole. Av. wt., 3 oz.

LOCKING TYPE

Stock	Mfr's	§ Action	n 💮	NET
No.	Туре	Poles	Diag.	EACH
34 B 471 34 B 472 34 B 473 34 B 474 34 B 484	3001L 3003L 3004L 3006L 3009L	SPST, n.o. SPDT DPST, n.o. DPDT 3PDT	III IV V XII	1.15 1.32 1.47 1.62 2.00
34 B 475 34 B 459 34 B 477 34 B 479 34 B 476		SPDT, n.o. DP 2-Ckt DP 2-Ckt DP 2-Ckt DPDT, n.o.	VI VIII VIIII IX X	1.47 1.53 1.53 1.71 1.73

SPRING-RETURN TYPE

Stock	Mfr's	§ Action	า	NET	
No.	Туре	Poles	Diag.	EACH	
34 B 465 34 B 466 34 B 467 34 B 468 34 B 485	3001 3003 3004 3006 3009	SPST, n.o. SPDT DPST, n.o. DPDT 3PDT	I IV V XII	1.15 1.32 1.47 1.62 2.00	
34 B 469 34 B 458 34 B 464 34 B 478 34 B 470	*3033 *3034 *3035 *3036 *3037	SPDT, n.o. DP 2-Ckt DP 2-Ckt DP 2-Ckt DPDT, n.o.	VI VIII VIIII IX X	1.47 1.53 1.53 1.71 1.73	

"TINI-SWITCHES"

Subminiature, Non-Locking, Pushbutton Switches. Red or black buttons. ¼" threaded bushing, 1%4" long. Requires %6" behind panel. For low-level currents only. \$n.o. means normally open; n.c. rormally closed Wt 3 or n.c.

normany cit	osea.	VV L., 3	UZ.		
Stock	Mfr's	Button	§Action		NET
	Type	Color	Poles	Diag.	EACH
34 B 831 34 B 832 34 B 833	951 952 953	Red Red Red	SPST n.c. SPST n.c. SPDT	1 1 1 1 1	.53 .53 .59
34 B 834 34 B 835	961 962 963	Black Black	SPST n.o. SPST n.c.	111	.53

"BUTTON" SWITCHES

Unusually Small, Momentary-Contact Pushbutton Switches. Ideal for replacement in electric appliances. Enclosed in metal housing; have black or red plastic button. Types 903 and 913 are ½" long; fit 1½" hole; mount from behind panel. Types 923 and 913 933 933 933 are ½" long; fit ½" hole; mount from front of panel. All rated at 250 ma, non-inductive load, AC (30 watts max.). Wt., 2 oz.



Stock	Mfr's	Button	Actio	n	NET
	Type		Poles	Diag.	EACH
35 B 414 35 B 418 35 B 416 35 B 420	903 913 923 933	Red Black Red Black	SPDT SPDT SPDT SPDT	118	88. 88. 1.03

CORD-TYPE PUSHBUTTON SWITCH

Hand-held switch for use on control cords. Consists of a momentary-contact "button" switch (above) threaded into one end of a nickel-plated sleeve. Action is SPDT; Diagram III. A precision, easily operated switch for remote control of recorders, lights, counters, many other devices. Sleeve is 11/16" dia. and 23/16" long.

Wt., 4 oz. 35 B 422. Type E903 Red. NET 1.47 35 B 424. Type E913 Black. NET 1.47

"LITTEL" SWITCHES

Miniature, Non-Locking Pushbutton Type Switches for limited space applications. One-piece button and shaft. Red or black button. §n.o. means normally open; n.c. means normally closed. Nickel silver contacts; spring sections are insulated. 3%" threaded stem; %" long. For low-level currents only. With mtg. hdwe. Wt., 3 oz.

Stock	Mfr's Button		§Action §	NET	
No.	Type		Poles	Diag.	EACH
34 B 944 34 B 945 34 B 946	101 102 103	Red Red Red	SPST n.o. SPST n.c. SPDT	- II - III	.53 .53 .59
34 B 947 34 B 948 34 B 949	201 202 203	Black Black Black	SPST n.o. SPST n.c. SPDT	11 .	.53 .53

TELECHRON CLOCK-TIMER



Electric Clock and Automatic Time Switch

Turns on TV, Radio, Hi-Fi Music System, or Appliance At Pre-set Time



An excellent value in a famous-name, combination electric clock and automatic time switch. Unit can be used for control of an AC radio, hi-fi music system, air conditioner, coffee-maker, hot plate, etc. Plenty of uses in the shop, Amateur station and laboratory, too—"warms up" equipment at any pre-set time. The built-in SPST switch is rated 15 amps at 125

One of the switch controls permits selecting manual "on" and "off" operation, or automatic turning on of the controlled device at a preselected time within a 12-hour period. Automatic operation can also be employed with a signal alarm sounding 10 minutes after "on cycle" begins. The other switch control permits selecting a definitely timed "on cycle" of up to one hour duration—can be used with radio as a "sleep switch." Gold color, 3½" square; 11% deep. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.
78 B 438. (Includes F. E. T.) NET 5.98

TORK TIME SWITCHES-PROGRAM TIMER







Easy to Use



8001



6100



4100

MODEL 4100 "HOURMASTER"

MODEL 7100

MODEL 919T PORTABLE SWITCH
Can be set for "on" period from 20 min. to 23 hrs., 15 min. daily to nearest 15 min. interval.
Use extra trippers for more "on-off" cycles.
Rated 15 amps. 5½x4¼". U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 4 lbs. 9.72
78 B 304. List, \$14.95. NET. Extra Trippers. For above. Pair, 3 oz. 78 B 309. NET PER PAIR.

MODEL 8001 PROGRAM TIMER

MODEL 6100 "TORKMASTER"

Intermatic Clock Timers and Time Switches

A211-4

- Exceptionally Easy to Operate
- No Special Installation Required

MODEL A211-4 "TIME-ALL"

Time control switch for office, store or home. Excellent for controlling lights or appliances, etc. Has manual control with automatic reset. Turns lights "on" and "off" at pre-set times—gives house a "lived in" look to discourage prowlers while owners are out or away on a vacation. To revert to control cycle, simply release manual control from "permanent" position.

Min. "on" time, 15 min.; max., 23 hrs., 45 min. AC outlet for equipment to be controlled. Switch contacts will handle 15 amps, 1875-watt load. Complete with 6-ft. cord, plug and instructions. Desert Sand Plaskon case. 5x4x2½". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 2 lbs.

78 B 311. List, \$11.95......NET 7.97

Model A221-4. Same as above, but designed to handle 7 amps, 875-watt load. Excellent for use in such light-duty applications as the automatic control of hi-fi music systems, home lights, etc. Dove Gray Plaskon case. Shpg. wt., 2 lbs. 78 B 397. List, \$10.95...........NET 7.29

CLOCK TIMERS AND CONTROLS





A401-4

A501

MODEL A401-4 "CLOCK-TIMER"

Combination clock and switch. For automatically turning appliances "on" and "off" at preset times. Min. "on" time, ½ hours. SPST switch rated 15 amps, 1875 watts. AC receptacle for plugging in appliances. Desert Sand Plaskon case. 6-ft. cord and plug. 4½x4¾x2¼". U.L. Approved. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs. 78 B 343. (Includes F.E.T.)...NET 8.77

MODEL A501 "MUSIC-MINDER"

Combination electric clock and automatic time switch that turns "on" appliances within a 12 hour period. Alarm may be set to go off 10 minutes later. 0-60 min. sleep switch lets you fall asleep to music. Handles 1875 watts. Desert Sand Plaskon case, 6-ft. cord. 4½x4¾x2¼". U.L. Approved 110-120 v., 60 cycle AC. 2 lbs.

78 B 267. (Includes F.E.T.)...NET 8.//

MODEL A301-4 "TIME-MINDER"

Combination electric clock and signal timer. Times any pre-set interval from 1 min. to 1 hour. Pleasant-toned buzzer sounds at end of interval and continues until manually shut off. No installation—just plug in. Desert Sand Plaskon case. U.L. Approved. 6-ft. cord. 4½x4¾x2¼″. For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs. 78 B 342. (Includes F.E.T.)... NET 6.57





RC5421-4

MODEL RC5421-4 CLOCK-TIMER

- All Controls Are Front-Mounted
- Very Attractively Styled

An unmounted combination electric clock and automatic time switch. Use it for controlling radios, TV sets; fans, air conditioners or any other appliance drawing up to 15 amps of current.

Will automatically turn "on" electrical appliances at any pre-set time within a 12-hour period; if desired, a pleasant sounding alarm may be set to go off 10 minutes later. A sleep-switch permits selecting a timed "on cycle" of up to 60 minutes in duration—lets you fall asleep to radio music. Unit can be manually operated too.

All controls are located on the front panel. All controls are located on the front panel. Highly attractive—has brass bezel, soft white and brown dial, tan knobs. Handles 1875 watts. $3\frac{1}{2}$ square; 2" deep. With crystal. Has four $5\frac{1}{2}$ mtg. holes on $3^{13}\frac{1}{4}$ ctrs. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 1 lb. 78 B 499. (Includes F.E.T.)...NET 6.94

MODEL RC5321-2 CLOCK-TIMER

Not illustrated. An unmounted unit, nearly identical to RC5421-4 above, but sleep-switch control and on-off-alarm knob are located on front panel, time and alarm-set shaft are at rear. Shpg. wt., 1½ lbs.
78 B 498. (Includes F.E.T.)... NET 6.43



Type T171

"SKIPPER" TIME **SWITCHES**

Handle up to 12 On-Off operations-Can be set to skip one or more days— U.L. Approved

Permit "skipping" control cycle. Have 2 dials: a time dial and a day dial. To skip any days, small skipping screws are inserted into the day dial. "On" and "off" trippers are set in the time dial. Special "cutout" tripper advances the day dial every 24 hours. Up to 12 operations per day can be obtained by adding trippers. Range: minimum "on" or "off", 1 hour; maximum, 23 hours. Silver contacts are rated 40 amps (4375 watts, tungsten) at 125 volts. 73/4x5x3". For 110-120 volts, 60 cycle AC. Shpg. W., 4 lbs.

Stock No.	Туре	Action	List	NET
78 B 3 5 78 B 3 6 78 B 3 7	T173	DPST	\$16.95 18.95 18.95	11.02 12.32 12.32

TRIPPERS AND SKIPPING SCREWS

Type 107719A. On-Cutout Trippers. For Skipper" types only. 3 oz. 78 B 319. NET EACH......20

Type 7918A. Skipping Screws. For "Skip-

per" types only. 8 oz. 78 B 364. Pkg. of 2, EACH PKG.....10

Type 107T8A. "On and Off" Trippers. For Intermatics, except T185. 2 oz.

78 B 324. NET PER SET.................26

POPULAR TIME SWITCHES



T101



P101



T185



TYPE T185 TIME SWITCH

Provides up to 12 "on-off" cycles daily, with extra trippers below. Each cycle is independently controlled and can vary from 5-60 min. Minimum interval between cycles, 134 hrs. Can be used as SPST normally open; SPST normally closed; or SPDT. Perfect for applications requiring more than one "on-off" cycle of the same or different duration in a 24-hour period. Rated 40 amps (4375 watts, tungsten rated), 125 v., AC. With 3 trippers (1 for each "on-off" cycle). 73/4x5x3". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs. 78 B 313. List, \$17.95....... NET 11.67

Extra Trippers. For above. 4 oz. 78 B 336. NET EACH......92

TYPE T965 TIME SWITCH

Program timer for up to 96 operations in a 24 hour period. Minimum "on" or "off" period is 15 min. Can be used for 24 hour control of heating, air conditioning, and industrial music systems. SPDT switch; rated 20 amps. 7½x5x3". U.L. Approved. For 110-125 v., 60 cycle AC. Wt. 4 lbs. 78 B 395. List, \$36.50........NET 23.73

TYPE T101 TIME SWITCH

SPST time switch turns equipment "on" and "off" once in 24 hours. With extra trippers (uses Type 107T8A, at left) will operate up to 12 times a day. Minimum time between settings is 1 hour. Contacts handle 40 amps (4375 watts, tungsten rated) at 125 volt, 60 cycle. 5x3x77/8". U.L. Approved. For operation from 110-120 volts, 60 cycle

78 B 322. List, \$11.95......NET 7.77

Type T103. As above, but DPST. 78 B 321. List, \$13.95 NET......9.07

Adopter Kit. Makes above units portable.

TYPE P101 TIME SWITCH

Portable type, SPST plug-in time switch. Easily set for from 1 to 12 on-off operations per day. Minimum "on" or "off" time, 1 hr.; maximum, 23 hrs. May also be manually operated. Capacity: 10 amps at 125 volts. 5x3x7 1/8". U.L. Approved. For 110-120 v., 60 cycle. AC. Shpg. wt., 4 lbs. 78 B 314. List, \$13.98......NET 9.07

UTC, Superior, Ohmite and Standard Transformers

UTC TRANSFORMERS ULTRA-COMPACT HIGH-FIDELITY AUDIOS

High fidelity input, interstage, and output transformers. Input types identified by maximum level in dbm. *Multiple shield for very low hum pickup. Response: A-10, A-11, A-12, A-16, A-18, ± 2 db, 20-20,000 cps; A-15, A-19, A-22, A-23, A-25, A-37, ± 2 db, 40-20,000 cps; A-20, ± 2 db, 10-50,000 cps; A-21, ± 2 db, 30-30,000 cps; A-24, A-26, ± 2 db, 20-40,000 cps; A-34, A-35, ± 2 db, 30-20,000 cps. $2x1\frac{1}{2}x1\frac{1}{2}$ case. Av. shpg. wt., $\frac{3}{4}$ lbs.



Stock No.	Mfr's Type	Pri. Imp., Ohms	Sec. Imp., Ohms	Max Level	EACH
62 G 820		50, 125-150, 200- 250, 333, 500-600	50K	15 dbm 5 dbm	13.20
62 G 821 62 G 822 62 G 864	A-12	50, 200, 500 Same as A-10 10K-2.5K	50K P.P. 80K 2 sect. 500-2K	15 dbm 1 watt	12.00
62 G 824 62 G 825 62 G 826 62 G 827	A-18 A-19	15K 15K (Split) 15K—8 ma DC Same as A-10	60K 2:1 80K P.P. 2.3:1 80K P.P. 2.3:1 Same as Pri.	30 mw 30 mw 30 mw 15 dbm	9.90 12.00 12.00 14.40
62 G 828	A-21*	50, 200-250, 500- 600	Same as Pri.	15 dbm	12.00
62 G 868 62 G 873 62 G 777 62 G 778 62 G 779	A-23 A-24 A-25	500 500 15K 15K—8 ma DC 30K P. to P.	500 4-16, split As A-10 pri. As A-10 pri. As A-10 pri.	1 watt 1 watt 30 mw 30 mw 30 mw	9.90 9.90 12.90 12.00 13.20
61 G 794 61 G 795 61 G 797 62 G 874	A-35 A-37	25,000-6250 split 10,000-2500 split 500-125 split Mumetal shield; for	500-125 split 500-125 split 50-12.5 split any of above	1 watt 1 watt 1 watt	9.90 9.60 2.70

UTC OUNCER AUDIO UNITS

For compact applications. Response: ±1 db, 30-20,000 cps; except 0-14, 15, and units carrying DC, average 150-4000 cps; †100-20,000 cps. Max. operating levels: 0-1, 2, 3, 12, 14, and 16 are ±8 dbm for input and mixing; 0-4 thru 0-10, 6.3 mw; 0-18, 19, 20, 21, 26, and 27 are 100 mw; 0-30 is 1 watt @ 200 cps. Sealed in aluminum case. Dia. ½x1½6" except §dia. 1½6x1½". Two 2-56 mtg. holes on ½6" ctrs. Wt., 4 oz.

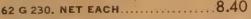


Stock No.	Туре	Primary Impedance	Sec. Imp.	NET
62 G 780	0-1	50, 200-250, 500-600	50,000	7.80
62 G 781	0-2	50, 200-250, 500-600	50,000 CT	7.80
62 G 782	0-3	7.5-30	50,000	7.50
62 G 783	0-4	15,000	60,000	6.60
62 G 784	0-5	15,000 DC in Pri.	60,000	6.60
62 G 785	0-6	15,000	95,000 CT	7.50
62 G 786	0-7	15,000 DC in Pri.	95,000 CT	7.50
62 G 787	0-8	15,000	(50,	7.80
62 G 788 62 G 789 62 G 790 62 G 793	0-9 0-10 0-12 0-13	15,000 DC in Pri. 30,000 plate to plate 50, 200-250 Reactor: 300 hys. at 0	200-250, 500-600 DC; 6000 ohms.	7.80 8.40 7.80 6.30
62 G 791	0-14	200	½ megohm	7.50
62 G 794	0-16§	250 CT	50,000	10.20
62 G 493	0-18†	10,000/2500	2000/500	7.80
62 G 494	0-19†	10,000/2500	4000/1000	7.80
62 G 495	0-20†	1500 CT	500/125	6.30
62 G 496	0-21†	2000 CT; 4000 CT	8; 16	5.40
61 G 762	0-23	Reactor: 7 hys. at 3 n	na DC; 230 ohms	5.10
61 G 765	0-26†	10,000 CT	10,000 CT	8.10
61 G 766	0-27†	10,000 CT	500/125	8.40
61 G 769	0-30†	500/125		8.10
62 G 492	0-17	Mumetal Shield; fits a		1.50

UTC STANDARD PHOTOFLASH TRANSFORMERS

Can be used for either standard (Amglo type), or trigger (Sylvania type) multiple flash tubes.

Type PF-1 Power Transformer. Primary 115 v., 50-60 cycle AC. Secondary with 2X2 rectifier delivers 2200 v. DC to capacitor up to 100 mfd. Filament tape for 2X2. 2½x3¾x2½″. Wt., 2½ lbs.



Type PF-3 Trigger Transformer. Not illus. Use with PF-1 to trigger (Sylvania type) flash tubes. 15 KV peak. Dia. 7/8×3" long. 6 oz. 6.00



PF-1, PF-5

UTC TRANSISTOR PHOTOFLASH TRANSFORMERS

Type PF-7 Trigger Transformer. Not illus. Use with PF-5 and PF-6 (above), to trigger flash tubes. .25 mfd capacitor discharging thru tapped winding provides 6 KV pulse. Dia. 1/8 x15/6" long. 2 oz. 3.60

SUPERIOR VARIABLE TRANSFORMERS



Powerstat variable autotransformers of toroidal core design with movable brush tap which rotates to deliver a continuously adjustable output voltage from AC power lines. Quality voltage controls that feature excellent regulation, conservative ratings, zero waveform distortion, rugged construction, and smooth control. Deliver adjustable output voltage from AC line—output variable from zero to above input line voltage. Negligible voltage change from no load to full load. Maximum current ratings apply over full range of output voltage. Types 10B, 21, and 116U have an "L" terminal which allows connecting in the field to limit output voltage to applied voltage. Mountings: P indicates behind panel mounting; U indicates general utility. Rated for 50° C. temperature rise under full load. All for 110-120 v. AC inputs. Frequency range is 50-60 cycles, except *60 cycles only. Sizes shown on types 10B, 21, and 116U are distance back of panel and diameter; for type 116, sizes are overall height and diameter. Type 116 has on-off switch, line cord and plug, fuse and standard, AC output receptacle.

Stock	Mfr's		UTPU		Mta.	Size	Wt.,	NET
No.	Type	Volts	Amps	KVA	witg.	3126	Lbs.	EACH
62 G 536 61 G 163 62 G 525 62 G 524	21 116	0-132 0-140 0-140 0-140	1.75 3.75 7.5 7.5	0.165 0.53 1.0 1.0	P P U P	2½6×2¹¾6″ 3¾×35½6″ 6½×45%″ 5×45%″	2½ 6½ 12 11	8.50 12.50 24.00 18.00

OHMITE VARIABLE TRANSFORMERS







Quality construction for excellent regulation, full current at any setting, long life, and no de-rating to 122°F. Dual voltage types may be connected for either range, with reversible dial, except VT8G, with 120-140 v. switch. All for 50-400 cycle single-phase AC except *60-400 cycle. Types VT2 and VT2N mount on 3/6"-32 control shaft bushing. Types VT4, VT4N, and VT8 mount on table or panels with three ½"-20 mtg. holes. Deluxe portable Type VT8G has circuit breaker and carrying case. All VT4-VT8 types U.L. listed.



Stock	Mfr's Out		utput '		Shpg.	NET
No.	Туре	Amps	Volts	Dia. and Ht.	Wt.	EACH
61 G 219	VT2N*	1.5	0-120/132	2½6×2¹¾6″	21/2	8.50
62 G 131		1.8	0-120	2½6×2¹¾6″	21/2	9.00
61 G 220		3.5	0-120/140	35/8×45/32″	51/4	12.50
62 G 132	VT8	4.75	0-120	35/8×45/32"	51/4	13.00
61 G 221		7.5	0-120/140	43/8×47/8"	101/4	18.00
62 G 133		6.0	0-120/140	73/8×53/16×51/4"	141/4	28.50

STANDARD ELECTRIC AUTOTRANSFORMERS







For laboratory and industrial applications. Ideal for use in laboratories and school classrooms; for light-dimming applications in homes and institutions. TV rooms, sick rooms; for small motor speed control, model railroading and hobby work. It is also used as the variable AC voltage control for equipment such as mixers, agitators, centrifuges, etc. Types 100BU, 300BU and 500BU are for back-of-panel mounting; Type 100BU mounts on panels up to ½" thick; Types 300BU and 500BU mount on panels up to ½" thick. PA-1 and PA-3 are housed in metal cases ready for bench use; Type 500B has brackets for table top mounting. Types PA-1, PA-3 and 500B supplied with pilot light, switch, fuse, cord, plug and receptacle. All are for 110-120 v., 50-60 cycle AC. All except BU types in gray wrinkle finish metal cases.

Stock	Mfr's	Vife's Output			Size	Wt.,	- NFI
No.	Туре	Voits	Amps			Lbs.	EACH
62 G 583 62 G 584 62 G 585	PA-1	0-132 0-132 0-140	1.25 1.25 3	.165	2 ³ / ₃₂ ×2 ¹³ / ₁₆ " 3 ⁷ / ₈ ×3 ⁷ / ₈ ×3 ¹ / ₂ " 6 ¹ / ₂ ×6 ¹ / ₈ ×5 ¹ / ₂ "	2 6 10	8.50 13.50 18.75
62 G 580 62 G 581 62 G 582	300BU 500B	0-140	3.0 7.5 7.5		31½x31½e" 6½x4¾8" 5x4¾"	10 10	12.50 23.00 18.00



EXACT-REPLACEMENT TV HORIZONTAL OUTPUT TRANSFORMERS

A complete line of top-quality replacement flyback transformers for all standard television receivers. Every transformer faithfully duplicates all of the electrical and physical characteristics of the original manufacturer's unit. Manufacturer's own specifications are used; performance is

16.36

identical in every respect. No alterations are required in the existing circuit or chassis for installation. Carefully constructed of high-quality materials to assure exceptional dependability. *For 77J1 except where 6CD6 horizontal output tube is used. Av. shpg. wt., 1 lb.



Avminas								
Stock No.	Туре	Orig. Mfr's Part No.	NET					
64 G 211 64 G 211 64 G 551	A-8133	79C23-3, 79C28-1 79C30-1/-3 79C30-2/-4,	6.88					
		79C38-1, 79D38-1	8.96					
64 G 213 64 G 214 63 G 460 64 G 572	A-8255 HO-265	79C60-1 79C60-2/-3 79C70-1 79D41-1/-2	5.59 6.49 5.83 7.64					
64 G 212 63 G 459 61 G 204 61 G 205	A-8292 HO-301	79D48-1	7.35 7.06 7.17 7.79					
63 G 290 63 G 291		79B77-6, 79D77-6, 79E77-6 79B77, 79D77-7/-22,	5.31					
		79E77-7 79D83-1/-2	5.31 6.54					

	CBS-COLUMBIA									
e	331 A-8230 10104/07/08/10/35 332 A-8231 10136B/37/38/59 463 A-8283 12000841/51 464 A-8284 12001051/91	7.35 7.35 6.92 6.53								
	CROSLEY									

07	-	223	11-02-10	134009/~1, 134990	
64	G	208	A-8263	2/3 158481-1/-2/-5	9.37 7.57
			E	MERSON	
64	G	268	A-8131 A-8138 A-8232	738047/48/53 738079/84 738067/68/69/73/ 74/75/82	5.87 6.53
61	G	207	HO-295	738103/109 738106/107/111 738119/122/128/129	7.35 6.53 7.32
61	GGG	247	HO-309 HO-310	/140 738138/A 738142	7.50 5.88 7.06

64 G 222 A-8241 |157820

	ENERAL ELECTRIC	
64 G 546 A- 64 G 277 A-	-8130* 77J1 -8262 RTO-131/141/-	7.17
63 G 466 A-	143-3 -8288 RTO-149/1 -8289 RTO-151/3	6.91
63 G 471 A-	-8290 RTO-166/5 O-252 RTO-165	6.05
63 G 469 HG	O-253 RTO-175/87 O-254 RTO-179/88	6.47 6.47 6.47
61 G 210 H	O-298 RTO-207 O-299 RTO-208	6.69

HOFFMAN	
63 G 469 HO-253 RTO-175/87 63 G 470 HO-254 RTO-179/88 61 G 209 HO-298 RTO-207	.47 .47 .47 .69
	.05

1 A-8137 2 HO-285		7.00	6
	TELEVICIO	M DOWN	

	HOFF	MAN	(Cont'd)		1.
Stock No.	Туре	Orig.	Mfr's Par	t No.	NET

03 970	HU-201	13144/43/46/48/49/53	7.18
MAGNAVOX			
63 G 472	A-8293	360593-2, 360552-1/	
63 G 473 63 G 474		-2/-2A, 360577/-1 360606/-1 360614-1, 360623/-1	7.60 7.06 7.06
61 G 253 61 G 254	HO-331 HO-332	320055-1/61-1/-3 360580-1/604-1	7.10
61 G 255	HO-333 HO-334	360700-1/-2	5.74 5.19
01 9 2371		OTOROLA	6.61

MOTOROLA			
64 G 325	A-8224	24C711265/A,	
64 G 279	A-8239	24C721290 24K792753,	9.11
		24K701009	6.98
64 G 326 64 G 327	A-8225	24K712193	9.11
04 G 327	A-8220	24K721301/C. 24K721517C	9.11
		24K739284	8.28
63 G 972	HO-281	24K730902/03/04	8.82
63 G 9/3	HO-282	24C736487, 24K738699	8.37
6! G 213	HO-293	24C736488	8.57
		24C739283	6.43
61 G 636	HO-341	Coil only 24C740969/ 742676	2.59
61 G 638	HO-343	24C744042	7.06
61 G 639	HO-344	24K748397/	
		754273-Z	6 50

MUNTZ	
64 G 281 A-8129 TO-0024 64 G 559 A-8132 TO-0031 64 G 283 A-8240 TO-0036 63 G 436 A-8291 TO-0039 64 G 278 A-8261 C9.253/-1/-2/-E	7.17 8.82 7.06 7.06 6.63
PHILCO	

63 G 438 HO-277 32-8465-2, 32-8509/-2	9 41
64 G 321 A-8222 32-8533/34 64 G 321 A-8220 32-8565	7.42
63 G 437 HO-276 32-8624/-1	8.47
PHILLADACALC	

64 G 573 A 8136 180 262

		213	121-0100	100-203/-203/-2	17.47	
	RCA					
64 63 63	GGG	784 969 441	A-8252 HO-256	211T1/T3 225T1	7.00 6.88 6.53 6.47 5.38	
64 64 61	GGG	788 221 214	A-8234 A-8131 HO-289		7.35 4.68 5.87 6.24 6.05	

		Orig. Mfr's Part No.	NE
61 G 258	HO-320	972914-1, 103092 10389 (50-94292-1) 104876 (972942-1),	6.5
61 G 260	HO-322	106063 (972-942-2) 104309 (972401-3), 106533 (973908-1)	7.18

				TATIOIAL	
64 63 61	GGG	332 969 216	A-8231 A-8252 HO-274	10104/07/08/10/35 10136B/37/59 N24989 T80-326/336 T80-368/390/411	7.35 7.35 6.53 6.76 4.30

6 G 263 HO-328 PO	C-70015 C-70019	7.06 6.38 7.69 6.92 6.03		
CVIVANIA				

64 G 329 64 G 330 63 G 443 61 G 258	A-8229 HO-259	241-0005/-0006 241-0007 241-0011 241-0046	5.5. 5.29 6.47 5.66
64 G 328		241-0003	1 5.5

TRAVLER

61	G	267	HO-323 HO-324 HO-325	TR-27	·6' ;	 A	6.96 6.54 6.90
							-

WESTINGHOUSE

64 G 285	A-8237	V9904-1/-2,V10213-1	6 76
64 G 286	A-8238	V-10214-1, V-9904-2.	0.70
		IV-10204-1	6.66
64 G 284	A-8236	V-11548-1/-2/-3/-4	7.76
61 G 269	HO-339	493V004M02/3/4	8.82
61 G 270	HO-340	493V003M03	8.40

ZENITH

64 G 287		S-15911/12,16566, S-17130/40, 17233, S-17245/265/435, S-17646/767/811, S-17927, -20908	7.06
64 G 288		S-15710, -16006, S-16191/204, S-17244/699/X, S-20866	7.06
64 G 289	A-8269	S-18487/537/802	7.06
64 G 290	A-8270	S-18567/990, S-19728	6.53
64 G 291 63 G 444	HO-267	S-19032/71 S-20099	6.53 6.53 7.19
63 G 445 63 G 447 63 G 448 61 G 217	HO-270 HO-271	S-18125	6.08 5.88 6.53 5.94

LEVISION POWER TRANSFORMERS

Quality power transformers for replacement use in standard TV receivers. Designed to supply high voltage (plates), rectifier and filament voltages. Plate windings are CT. Leads are stripped, tinned and color-coded to E.I.A. standards. *With copper shorting band to reduce external magnetic field. For 117 v., 60 cycle AC, except Type P-5059, which has primary designed for 117/107 v. operation. Types P-8355 and P-8356 are similar to Fig. A on following page.

Stock	Mfr's	Plate	e R	ect.	Fila	ments	Overall	Wt.	NET
No.	Туре	VIN	Va V	A	V	I A	Size	Lbs.	EACH
63 G 429 63 G 430 64 G 576 64 G 577	P-6315 P-8159*	675 2 740 2 720 2	75 5 90 5	333	6.3 CT 6.3 CT 5/6.3/6.3	5. 7.0 2/8/.6	45/8 x33/4 x41/8" 41/4 x33/4 x41/2" 55/16 x31 3/16 x43/4"	9 ³ / ₄ 9 ¹ / ₂ 10	13.06 13.68 17.29
64 G 578		720 18 600 2	عندر بند	3	6.45	12	4½ x3¾ x4½"	10	16.23
64 G 580 63 G 458 64 G 583	P-8166* P-8167*	680 33 560 40 760 22	30 5	6	6.3 6.3/6.3/6.3 6.3/6.3 6.3/6.3/6.3	9.0 2.5/5.0/5.0 4.5/8.5 1.2/5/7	4½x37½x4½″ 6x313½6x4¾″ 6x313½6x4¾″ 45%x3¾x4½″	7½ 13 13 10½	15.88 19.30 19.73 16.77
63 G 431 64 G 599 63 G 449 64 G 413	P-8171* P-8172	760 22 750 22 540 20 620 24	25 5	333	6.3/6.3/6.3 6.3/6.3		43/4 x4x43/4" 5x33/4 x41/2" 43/8 x31/8 x33/4" 41/2 x33/4 x41/2"	10½ 10½ 10½ 7	16.31 17.64 13.85
64 G 415 64 G 416 64 G 417 64 G 419 64 G 421	P-8334* P-8335* P-8337	590 22 550 30 600 32 630 22 650 25	05 5 25 5 25 5	3563	6.3/6.3 6.3/6.3 6.3/6.3 6.3	11.4/.9 8.5/1.2 8.8/1.5 8.25	45/8 x33/4 x41/2" 51/8 x33/4 x41/2"	10 13 13 8½	14.12 14.93 16.46 17.00 14.09
64 G 422 64 G 424 63 G 428 63 G 272 63 G 273	P-8340* P-8342* P-8352* P-8355*	710 27 730 26 580 24 570 25 540 26	70 5 50 5 10 5	6633	6.3/6.3/6.3 6.3/6.3 12.6 CT 6.3	9.5/1.65/2.4 8.85/1.2 5.25 9.5	5½ x3¾ x4½"	12 13 8½ 6½	13.93 18.40 17.57 13.50 11.59

VERTICAL DEFLECTION OUTPUT TRANSFORMERS

6.61

All are isolation transformer type except twhich is autoformer type and, twhich can be used either way. *Copper shielding band around coil and core.

No.	Mfr's Type	Pri. Ohms	Sec. Ohms	Size	Wt.,	NET
64 G 522 64 G 523	A-8112 A-8113	1300 700	10	2x3¼x1¾″ 2x3¼x1¾″	1	2.94
64 G 502 64 G 547	A-8115 A-8123†	600 1200	7	3½6x2½x2½″ 2x3¼x1¾″	21/2	3.09
64 G 554 64 G 557	A-8140	400	0.3	2½x2½x3½z"	1 1/2	2.91 5.23
61 G 289	A-8141† A-8142	1650 540	4.5 10.5	2½ x3¾ x2½" 25/8 x3x2¼"	11/2	4.17
61 G 290	A-8145 A-8146	375	14 10	25/8 x 2 1/2 x 2 1/4" 2 x 3 1/4 x 1 7/8"	2 11/2	4.20
64 G 473 63 G 977	A-8148† VO-103*	375 530	5.5	2x1 7/8 x3 1/4"	1 1/2	3.37
61 G 292 61 G 293	VO-108 VO-1091	350 1150	10.3	2x1 ½x3¼" 2x2x3¼"	11/4	2.84
61 G 124 61 G 125	VO-110 VO-111	1670	7.0	2x2x3½" 2x3½x2"	11/4	5.41 2.82
61 G 294 61 G 295	VO-112	1425 384	7.5	2x3½x2" 2¼x2½x35/8"	13/4	3.25 3.36
61 G 126	VO-113 VO-114	1435 250	19.7	25/16x215/16x13/4" 2x15/8x31/4"	11/4	2.73

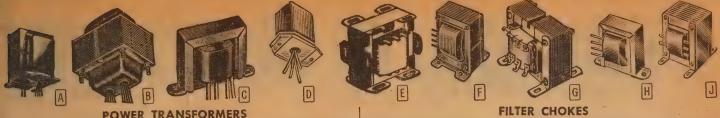
VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

Primary to secondary ratios permit operation in the majority of conventional vertical oscillators *Conner shield in the majority of conventional vertical oscillators

Stock No.		Pri.: Sec. Ratio			
		FIL. Sec. Matio	Size	Lbs.	NET
64 G 501	A-8111	1:4.2	11/2x21/2x11/2"	1/	1 0 4
64 G 504	A-8121	1:4.2	1 /2 12 /2 11 /2	1/2	1.94
64 C 543	A 9100		$1\frac{3}{4} \times 2\frac{5}{16} \times 1\frac{1}{2}$ "	1/2.	2.59
64 G 543	A-0144	1:4.2	19/16×13/16×13/16"	1/2	3.83
64 G 558	A 9125	1.40			2.03
		1:4.2	23/16×1 1/4×13/16"	1/2	1.89
64 G 471		1:1.5	13/4×11/2×2"	12	
61 G 218	VBO-201*			1/2 1/2 1/2	1.94
	. 20 201	1.0.00	13/16x23/16x11/4"	1/2	2.06

61 G 21

Stancor Transformers



POWER TRANSFORMERS

For 6.3 Volt Tubes. All primary frames have center-tapped 6.3 volt winding except PS-8415, PS-8416, PC-8414, PC-8418, PC-8419, PC-8420, PM-8419, PM-8420 and PA-8421. *For 6AX5, 6X4, 6X5 and similar 6.3 v. filament rectifiers, and for selenium rectifier. All are Figure B, except Types PC & P are Figure A and PS is Figure C. §PC-8414 has an extra 6.3 volt winding (not center tapped), rated at 3 amperes. All primary windings are for 117 volt, 60 cycle AC.

Windings are 101 21 to 101								
Stock No.	Mfr's Type	Pla	Ma	5V @	6.3V @	Size	Wt., Lbs.	NET
64 G 162 64 G 078 64 G 216 64 G 077 64 G 154	PS-8415* PA-8421* PS-8416* PC-8418*	125 125 250 460 470	15 50 25 50 40	2A	.6A 2.0A 1.0A 2.5A 2.0A	2½x1½x2" 2¼x3¾x2½" 2½x3¾x2½" 3½x2½x1¾" 3½x2½x2½"	1 1/2 1 2 3/4 2 1/4	2.32 3.76 2.79 4.70 5.65
64 G 176 64 G 170 64 G 177 64 G 175 64 G 215	PM-8402 PC-8402 PM-8419*	470 480 480 480 480	40 55 55 70 70	2A 2A 2A	2.0A 2.0A 2.0A 3.0A 3.0A	3 ³ / ₆ x2 ⁵ / ₈ x2 ⁵ / ₈ " 2 ³ / ₄ x2 ¹ / ₂ x3" 3 ¹ / ₆ x2 ⁵ / ₈ x2 ³ / ₄ " 2 ⁷ / ₈ x2 ¹ / ₂ x3" 3 ³ / ₁₆ x2 ⁵ / ₈ x2 ⁷ / ₈ "	2 1/4 2 1/2 2 1/2 2 3/4 2 3/4	5.42 5.53 5.38 5.41 5.41
64 G 167 64 G 168 64 G 171 64 G 178	PC-8420* PM-8403 PC-8403	520 520 500 500 500 520	90 90 70 70 70 90	2A 2A 2A 2A	4.0A 4.0A 2.5A 2.5A 3.0A	3 ½ x2 ½ x3 3 ½ " 3 ½ x3 x3 ½ " 3 ½ x3 x3 ½ " 3 ½ x2 ½ x3" 3 ½ x2 ½ x3" 3 ½ x2 ½ x3" 3 ½ x3 ½ "	3 ½ 3 ½ 3 ¼ 3 ¼ 4	6.56 6.29 6.23 6.23 6.91
64 G 160 64 G 172 64 G 183 61 G 133 61 G 237	PM-8405 PC-8405 P-6358*	520 540 540 600 600	90 120 120 65 90	2A 3A 3A 2A	3.0A 3.5A 3.5A 2.7A 3.5A	2 1/8 x 3 1/8 x 3 5/8 " 3 1/4 x 3 1/8 x 3 3/4 " 4 x 3 1/4 x 3 1/2 " 3 1/8 x 2 5/8 x 2 1/2 " 3 1/4 x 2 1/8 x 3 3/8 "	4 5 5 3 3 ³ / ₄	6.91 9.01 9.01 5.84 7.97
64 G 155 64 G 157 64 G 217 64 G 184 64 G 164	PM-8406 PC-8406 PC-8407	650 650 650 650 680	40 55	2A 2A 2A 2A 2A 2A	2.0A 2.0A 2.0A 2.0A 2.5A	2 ½ x 3 x 3 ½ " 2 ½ x 3 x 2 ¾ " 3 3 ½ x 2 ½ x 2 ¾ " 3 3 ½ x 2 ½ x 2 ¾ " 3 ½ x 3 ½ x 3 ½ " 3 ½ x 3 ½ x 3 ″	3 1/4 2 1/2 2 1/2 3 1/2 4	7.35
64 G 156 64 G 186 64 G 186 64 G 186	PM-8408 PM-8409 PC-8409 PM-8410	680 700 700 720 720	90 90 120	2A 2A 2A 3A 3A	2.5A 3.0A 3.0A 3.5A 3.5A	276 x 3 3/6 x 3 3/4" 276 x 3 3/6 x 3 3/4" 3 5/6 x 3 3/4 x 3 3/4" 3 3/6 x 3 3/4 x 3 3/4" 4 x 3 1/4 x 3 3/4"	4 4 1/4 4 1/4 5 1/4 5 1/4	9.17
64 G 17: 64 G 18: 64 G 16	PM-8411 PC-8411 PM-8412 PC-8412	750 750 800 800 1200	150 200 200	3A 3A 3A 3A 3A	4.5A 4.5A 5.0A 5.0A 3.0A	3 1/8 x 3 1/8 x 4 1/8" 4 1/8 x 3 1/8 x 4" 3 3/4 x 4 1/2 x 3 1/8" 4 x 4 x 4 3/4" 4 1/4 x 4 3/4 x 4"	6 81/4 81/4 81/2	12.30 11.79 12.33 12.30 14.46

A TYPE P-8195 TRANSISTOR INVERTER TRANSFORMER

DEFLECTION YOKES

For 70° deflection picture tubes, except §for 50°; †90°; \$110°. All have ferrite cores and cosine-wound distributed

windings for networks ar	windings for anti-astigmatic focusing. Most units have networks and extra-long leads. Av. shpg. wt., 11/3 lbs.									
Stock No.	Type	Horizontal	Vertical	NET						
64 G 538	DY-1A§	8.3 mh, 13.5 ohms	50 mh, 66 ohms	7.54						
64 G 595	DY-2A	10.3 mh, 14.5 ohms	50 mh, 66 ohms	7.22						
64 G 539	DY-8A	8.5 mh, 14.5 ohms	50 mh, 52.5 ohms	7.22						
64 G 590	DY-9A	13.5 mh, 17.5 ohms	50 mh, 53.5 ohms	8.40						
64 G 589	DY-10A	30.0 mh, 45 ohms	3.5 mh, 3.5 ohms	7.22						
64 G 596	DY-11A	20 mh, 31 ohms	50 mh, 50 ohms	8.89						
64 G 597	DY-12A	30 mh, 41 ohms	50 mh, 50 ohms	8.01						
63 G 481	DY-13A†	12.5 mh, 15 ohms	48 mh. 52 ohms	10.17						
64 G 370	DY-14A	30 mh, 45 ohms	3.5 mh, 3.5 ohms	7.59						
64 G 371	DY-15A	25 mh, 35 ohms	40 mh, 50 ohms	7.88						
63 G 482	DY-16A†	20 mh, 26 ohms	44 mh, 45 ohms	9.17						
63 G 487	DY-21A	14.5 mh, 10 ohms	3.1 mh, 3.5 ohms	7.44						
63 G 489	DY-23A†	20 mh, 27 ohms	45 mh, 43 ohms	8.53						
63 G 496	DY-25A†	24 mh, 46 ohms	11 mh, 11 ohms	7.59						
63 G 498	DY-27A‡	17.5 mh, 35.5 ohms	12.3 mh, 13.5 ohms	10.24						
61 G 271	DY-28A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	6.91						
61 G 272	DY-29A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	7.01						
61 G 273	DY-30A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	7.25						
61 G 274	DY-31A†	24 mh, 44.2 ohms	42 mh, 42 ohms	8.65						
61 G 275	DY-32A†	24 mh, 34 ohms	42 mh, 42 ohms	8.53						
61 G 276	DY-33A†	30.5 mh, 34 ohms	43 mh, 50 ohms	6.86						
61 G 277	DY-34A†	30 mh, 45 ohms	47 mh, 42 ohms	7.35						
61 G 278	DY-35A†	20 mh, 28 ohms	45 mh, 45 ohms	6.89						
61 G 279	DY-36A†	24 mh, 43 ohms	40 mh, 37 ohms	9.08						
61 G 280	DY-37A†	20 mh, 28 ohms	45 mh, 45 ohms	8.13						
61 G 281	DY-38A‡	20 mh, 38 ohms	34 4 mh, 34 ohms	8.78						
61 G 282	DY-39A†	13 mh, 22 ohms	40 mh, 41 ohms	7.94						
61 G 283	DY-40A‡	12 mh, 17 ohms	40 mh, 39 ohms	Annual Contract of the last of						
61 G 284	DY-41A	13.3 mh, 20 ohms	41 mh, 54 ohms							
61 G 285	DY-42A‡	30.4 mh, 47.2 ohms	34 mh, 34 ohms							
61 G 286	DY-43A†	24 mh, 31 ohms	3.3 mh, 3.0 ohms							
61 G 287	DY-44A‡	18.5 mh, 33 ohms	34 mh, 34 ohms							
61 G 288	DY-45A‡	18.6 mh, 35 ohms	14.8 mh, 13.8 ohms							
6 G 20	DY-47A	8.2 mh, 19.7 ohms	41 mh, 72 ohms	8.00						
6 G 21	DY-48A	14 mh, 33 ohms	29 mh, 60 ohms	6.76						
6 G 22	DY-49A	44 mh, 110 ohms	38 mh, 80 ohms	8.41						
6 G 23	DY-50A	12 mh, 28 ohms	33 mh, 83 ohms	9.29						

All ratings are with maximum DC in winding, ‡Fig. G with leads, All are rated 1500 v. rms. except *2000, †3000, \$2500. Types C2690 and C2691 have dual windings; first rating series, second rating parallel.

64 G 057 C1001† C 10.5 110 225 2% x4x2½* 2½ 2.82 64 G 055 C1003 C 16.0 50 580 580 23¾ x1½* ½ 2.13 64 G 065 C1080 C 3.5 50 200 1½ x2½ x1½* ¾ 1.62 64 G 067 C1279 C 8.5 50 200 1½ x2½ x1½* ¾ 1.62 64 G 067 C1279 C 8.5 50 200 1½ x2½ x1½* ¾ 1.62 64 G 067 C1279 C 8.5 50 200 1½ x2½ x1½* ¾ 1.62 64 G 067 C1410† A 4.0 175 100 3⅓ x3x3½* 3½ 5.64 G 4 66 C1411† A 4.5 200 80 3⅓ x3x3¾* 3½ 5.68 64 G 068 C1420† A 4.0 250 60 3⅓ x3x3¾* 3½ 5.68 64 G 068 C1420† A 4.0 250 60 3⅓ x3x3¾* 3½ 5.68 64 G 068 C1420† A 7.0 140 165 3¾ x2½ x1½* ¼ 1.2 1.62 64 G 058 C1515 C 20.0 15 900 1½ x2½ x1½* ¼ 1.2 1.00 64 G 052 C1708 C 13.0 65 500 2.33 x1½* ½ 1.2 1.05 64 G 052 C1708 C 13.0 65 500 2.33 x1½* ½ 1.3 2.5 64 G 052 C1708 C 13.0 65 500 2.33 x1½* ½ 1.3 2.5 64 G 052 C1708 C 13.0 65 500 2.33 x1½* ½ 1.3 2.5 64 G 069 C1721† F 8.5 200 120 3½ x2½ x1½* 1½ 2.35 64 G 069 C1721† F 8.5 200 120 3½ x1½* ½ x1½* 1 2.35 64 G 069 C1721† F 8.5 200 120 3½ x1½* ½ x1½* 1 2.35 64 G 069 C1721† F 8.5 200 120 3½ x1½* ½ x1½* 1 2.20 64 G 050 C230\$ D 5.0 100 300 80 4½ x2½ x1½* 1½ 2.35 64 G 069 C1721† F 8.5 200 120 3½ x1½* ½ 1 2.20 64 G 069 C1721† F 8.5 200 120 3½ x1½* ½ 1 2.20 64 G 069 C1722† F 8.0 300 80 4½ x1½* ½ 1 2.20 64 G 069 C1722† F 8.0 300 80 4½ x1½* ½ 1 2.20 64 G 069 C230\$ D 5.0 100 300 2.3½ x1½* 1½ 10.82 64 G 069 C230\$ D 5.0 100 300 2.3½ x1½* 1½ 10.82 64 G 069 C230\$ D 5.0 100 300 2.3½ x1½* 1½ 10.82 64 G 069 C230\$ D 5.0 100 300 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 130 100 2.3½ x1½* 1½ 3.36 64 G 069 C232\$ C 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Stock No.	Type	Fig.	Hys.	Ma.	Ohms	Size	Lbs.	NET
Color	64 G 056 64 G 055 64 G 065	C1002 C1003 C1080	CCC	15.0 16.0 3.5	75 50 50	400 580 200	2½ x3¾ x2¼" 2x3¼ x1¾" 15% x2% x1½"	1½ 1½ 3/4	3.52 2.82 2.13 1.62
64 G 465 C 1421† A 7.0 140 155 3 3 1 1 1 2 1 2 1 0 6 4 G 050 C 1706 C 4.5 50 300 1 1 1 1 1 2 1 2 1 0 6 4 G 050 C 1707 C 7.0 50 550 1 1 1 1 1 2 1 2 1 0 6 4 G 051 C 1707 C 7.0 50 550 1 1 1 1 1 2 2 2 1 0 6 4 G 052 C 1708 C 13.0 65 500 2 2 3 1 1 1 1 2 2 2 3 1 3 0 6 5 500 2 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 3 1 2 2 3 5 6 4 G 054 C 1721† F 8.5 200 120 3 1 3 1 2 2 3 5 6 4 G 059 C 1721† F 8.5 200 120 3 1 3 1 2 2 3 5 6 4 G 059 C 1721† F 8.5 300 80 4 5 1 2 2 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 0 2 2 3 3 1 3 1 3 1 2 2 3 3 3 3 1 3 3 3 3	64 G 067 64 G 063 64 G 466 64 G 455	C1355 C1410† C1411† C1412†	E A A	8.0 4.0 4.5 4.0	75 175 200 250	290 100 80 60	2 ¹ / ₁₆ x2 ⁵ / ₁₆ x1 ³ / ₄ " 3 ³ / ₁₆ x2 ⁵ / ₈ x2 ⁵ / ₈ " 3 ⁵ / ₈ x3x3 ¹ / ₈ " 3 ⁵ / ₈ x3x3 ¹ / ₂ "	1 2½ 3½ 4½	2.60 4.45 5.56 6.82
64 G 053 C1709 C 8.0 85 250 2x3\(\frac{3}{4}\)x2\(\frac{3}{2}\)x4\(\frac{2}{3}\) 3.53 64 G 069 C1721+ F 8.5 200 120 3\(\frac{3}{4}\)x3\(\frac{3}{4}\)x3\(\frac{3}{3}\)x3\(\frac{3}\)x3\(\frac{3}{	64 G 465 64 G 058 64 G 050 64 G 051	C1421† C1515 C1706 C1707	ACCC	7.0 20.0 4.5 7.0	140 15 50 50	165 900 300 550	3 ³ / ₁₆ x2 ⁵ / ₈ x2 ⁵ / ₈ * 1 ⁵ / ₈ x2 ⁷ / ₈ x1 ¹ / ₂ " 1 ³ / ₈ x2 ³ / ₈ x1 ³ / ₈ " 1 ³ / ₈ x2 ³ / ₈ x1 ³ / ₈ "	2½ 1 3/4 3/4	4.55 2.10 1.25 1.39 2.35
64 G 060 C2304 C 2.3 150 60 2x3\(\frac{3}{4}\)x1\(\frac{3}{4}\)x2\(3	64 G 053 64 G 054 64 G 069 64 G 456	C1709 C1710 C1721† C1722†	CCFF	8.0 7.0 8.5 8.0	85 150 200 300	250 200 120 80	2x3 ¹ / ₄ x2" 2 ⁵ / ₈ x4x2 ¹ / ₄ " 3 ⁷ / ₈ x3 ¹ / ₈ x3" 4 ⁵ / ₈ x3 ³ / ₄ x3 ³ / ₂ "	2½ 4½ 7½	2.35 3.53 7.35 10.82 2.20
64 G 520 C2326 C 1.0 300 43 3\(\frac{3}{4} \times \frac{1}{2} \frac{1}{4} \times 1	64 G 060 64 G 061 64 G 064 64 G 457	C2304 C2305 C2308† C2309*	C D A C	2.3 5.0 8.0 3.0	150 100 300 150	60 300 80 90	2x3½x1¾" 211/16x2¾x23/16" 4¾x4x3½" 2½x3¾x2½"	1½ 7¾ 1¾	2.20 3.38 10.82 2.52 2.79
6 G 245 C2345\$ C 350 5 5600 2x3\(\frac{1}{3}\(x\)2\(\frac{1}{3}\)2\(\frac{1}{3}\)2\(\frac{1}{3}\)5\(\frac{1}\)5\(\frac{1}{3}\)5\(\frac{1}{3}\)5\(\fr	64 G 520 64 G 073 64 G 458	C2326 C2327 C2328	CCC	1.0 1.5 .8	300 200 375	85 25	3¾ x2¼ x2¼ " 15% x2½ x1½" 2½ x3¾ x2"	3/4 1½ 2½ 2½	2.84 1.76 3.53 3.46
6 G 241 C2688 G .01 12.5A .03 3½ x4½ x3½ * 6 6 6 G 242 C2689 G .005 22.5A .03 3½ x4½ x4½ x4½ * 6 6 G 137 C2690 J .3075 1-2A .3075 3.7√6 x2½ x3¾ * 5 7.86 G 139 C2704 C 9 125 25-5A .6-0.15 3½ x3½ x3½ x3¾ * 7 .001 3.01	61 G 244 61 G 245	C2344§ C2345§	CCC	1.5 350 35	10 5 15	85 5600 1800	1 ¹ / ₄ x2 ¹ / ₈ x1 ¹ / ₈ " 2x3 ¹ / ₄ x2" 1 ³ / ₈ x2 ³ / ₈ x1 ¹ / ₄ "	11/2	3.01
6 G 37 C2690 J .3075 1-2A 3.0-0.75 37/6x2½x3½* 5 7.86 G G 38 C2691 J .0802 25.5A 0.6-0.15 33½x3½x3¾* 7 10.01 0.01	61 G 239 61 G 240 61 G 241	C26861 C26871 C26881	G	.025 .01 .01	4A 8A 12.5A	.425 .15 .11	3x3 ³ / ₈ x2 ⁷ / ₈ " 3 ¹ / ₄ x3 ³ / ₄ x3 ³ / ₁₆ " 3 ¹ / ₂ x4 ¹ / ₈ x3 ¹ / ₁₆ " 3 ⁷ / ₈ x4 ¹ / ₂ x4 ¹ / ₂ "	3½ 5½ 6 12	13.18
	61 G 137 61 G 138 61 G 139 61 G 140	C2691 C2704 C2705§	J C A	.0802 9 10	2.5-5A 125 200	0.6-0.15 250 150	3 ³ / ₄ x3 ¹ / ₈ x3 ³ / ₄ " 2 ¹ / ₄ x3 ⁵ / ₈ x1 ¹ / ₈ " 3 ⁹ / ₆ x3x3 ¹ / ₂ "	7 2½ 39/16	3.01

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

Transformers for single-ended or push-pull tube output stages matching to line or voice-coil. Center-tapped primaries are for push-pull. All transformers are Fig. C mounting type with the exception of *Fig. A and Type A3337, Fig. H. Type A3330 has 4.5% primary tap.

Stock No.	Mfr's Type	Primary	Sec.	Watts	Mtg. Ctrs.	Wt., Lbs.	NET
64 G 013	A2312 A2313 A3304* A3311*	14,000 CT 7,000 7, 10K CT 10K CT 25K	4 8 500/15/8/4 500/15/8/4 4	10 10 25 25 25	2 3/8" 2 13/6" 2 x1 11/6" 2 1/4 x2" 2"	1 2 3 1/2 3 1/2	2.79 2.50 6.30 6.77 1.80
64 G 244 64 G 246	A3328 A3329 A3330 A3332	4,000 8,000 2K 2,000 5K	3.5 3.5 3.5 3.2 6-8	3 3 5 3 10	1 3/4" 1 3/4" 2" 1 3/4" 2 3/8"	1/2 1/2 1/2 1/2 1/2	1.34 1.34 1.94 1.35 2.28
64 G 020 64 G 021	A3800* A3801*	6,600 CT	500/250/15 /8/4 500/250/15 /8/4	30	2½ x2" 2½ x23/4"	4 4 3/4	6.73 8.58
64 G 298 64 G 015 64 G 001	A3857 A3876	10K CT 25K CT 2,000	8/4/2	5 5 5	2 3/8"	3/4 1/2 1/2	2.65 2.35 1.45
64 G 004 64 G 006 64 G 010 64 G 138 64 G 519	A3878 A3879	5,000 7,000 10,000 4,000 CT 7,600	32/16/8 3.2	5 5 7 1/2 5	2" 2" 2" 31/16"	1 1/4 1/4	1.45 1.49 1.45 3.99 1.73

AUDIO INPUT TRANSFORMERS

For matching 7000 to 15,000 ohm impedance single plate to push-pull grids; except* for matching 7,000 to 20,000 ohm impedance single plate to single grid. Maximum primary DC, 10 ma. Illustrated by Fig. C. †Same illustration, except with cover over winding.

Stock No.	Туре	Ratio	Size	Wt., Lbs.	NET
64 G 079 64 G 090 64 G 081 64 G 082 63 G 281 63 G 283	A-52-C A53* A-53-C A-63-C A4779† A4778† A4780†	1:2 1:3 1:3 1:3 1:10 1:20 1:20	13/6×23/8×13/8" 13/6×23/8×11/2" 13/6×23/6×13/8" 15/6×27/6×11/2" 13/6×23/6×11/4" 23/6×27/6×11/4" 23/6×23/6×13/4"	3/4 3/4 3/4 3/4 1 1	2.20 1.98 2.35 2.65 2.25 3.91

Stancor Transformers

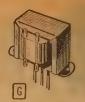














TRANSISTOR TRANSFORMERS

*Maximum primary DC current (for each half of primary if center-tapped). §Type TA-14 has two secondaries. 16 ohms series. 4 ohms parallel. Types TA-61 and P-8196 are for Motorola hi-fi stereo amp. #Similar to D on preceding page. ††Is A on preceding page. **Similar to D on preceding page but with threaded mtg. studs. ##Is H on preceding page. Average shpg. wt., 3 oz. except: TA-13, 1½ lbs.; TA-14, 6½ lbs.; TA-17, 3 lbs.; TA-57 and 60 1 lb.; TA-61 and 62 12 oz.; TP-1, 2¾ lbs.; P-8196, 4½ lbs.

INPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	NET EACH
63 G 952 63 G 857 63 G 860 63 G 889 61 G 129	TA-15 TA-18 TA-47	D D A A D	600 CT 50-100 30 CT 1K CT 500K	10 10 50K 200K CT 200 CT	20 50	.05 5mw .150 .300	13/6x19/6x15/6" 13/6x19/6x15/6" 21/32x13/6x5/6" 13/6x15/6x3/4" 3/4x15/6x13/6"	1.89 1.47 3.65 3.65 4.16

OUTPUT TRANSFORMERS

63 G 959 63 G 960	TA-8 TA-9	D	9800	15 4/8/16	2	.05	13/8 x 27/16 x 13/8" 3/4 x 19/16 x 3/4"	4.24
63 G 961	TA-10	D	2K CT	4/8/16		.2	3/4 x19/16 x3/4"	5.32
63 G 962	TA-11	D	48 CT	8/16	275	5	2x35/16x13/4"	3.65
63 G 963	TA-12	D	20 CT	8	500	10 .	13/8 x 1 7/16 x 1 1/2"	1.89
63 G 965	TA-14§		24 CT	16/4CT	200	10	41/4 x 43/8 x 39/16"	10.06
63 G 862	TA-20	A	350 CT	4/12		.150	21/32X13/16X5/8"	3.65
63 G 863 63 G 865	TA-21 TA-23	A A	500 CT 600 CT	4/8/16	,	.150	21/32X 13/16X5/8"	3.65
		-		4/8/16		.150	21/32×13/16×5/8"	3.65
63 G 867	TA-25 TA-26	A	825 CT 1250	4/8/16		.150 .150	21/32x13/16x5/8"	3.65
63 G 87 I	TA-29	Â	2500	4/12 4/16		.150	21/ ₃₂ x 1 3/ ₁₆ x 5/ ₈ " 21/ ₃₂ x 1 3/ ₁₆ x 5/ ₈ "	3.65 3.65
63 G 875	TA-33	A	10K CT	4/8/16		.150	21/32X13/16X5/8"	3.65
63 G 879	TA-37	Α.	400 CT	11		.150	21/32X13/16X5/8"	3.65
63 G 881	TA-39	Α	100 CT	4/8/16		.300	13/16x15/8x3/4"	3.65
63 G 882	TA-40	A	160	4/8/16	,	.300	13/16x15/8x3/4"	3.65
63 G 883	TA-41	Α	400 CT	4/8/16		.300	13/16x15/8x3/4"	3.65
63 G 884	TA-42	A	500 CT	4/8/16		.300	13/16x15/8x3/4"	3.65
63 G 885	TA-43	Ã	700 CT	4/8/16		.300	13/16x15/8x3/4"	3.65
63 G 886 63 G 887	TA-44 TA-45	A	3000	4/8/16		.300	13/ ₁₆ x15/ ₈ x3/ ₄ "	3.65 3.65
	TA-56	H					13/16x15/8x3/4"	-
63 G 479	TA-57	В	48 CT 100 CT	3.2/8/16 3.2/8/16	500	10 10	25/16x21/8x2"	3.04
61 G 132	TA-60	D**	125 CT	8	500	1.5	25/16×27/8×2" 13/4×11/4×11/4"	4 11
61 G 640	TA-62	D	25	4	400	4	13/8 x2 1 3/16 x 1 1/2"	1.83
							710	

INTERSTAGE TRANSFORMERS

63 G 953	TA-2	D	100 CT	10 CT	100		11/16x21/8x13/8"	1.89
63 G 954	TA-3	D	100	1K CT	100	.25	13/8 x 27/16 x 13/8"	1.89
63 G 955	TA-4	D	500 CT	5K CT	12	.03	13/8 x 27/16 x 13/8"	2.48
63 G 861	TA-19	Α	100 CT	10 CT		.150	21/32X 13/16X5/8"	3.65
63 G 864	TA-22	A	500 CT	50		. 150	21/32X13/16X5/8"	3.65
63 G 866	TA-24	A	500 CT	- 50K		.150	21/32X13/16X5/8"	3.65
63 G 869	TA-27	A	1200	20K CT		.150	21/32X13/16X5/8*	3.65
63 G 870	TA-28	A	1500	500 CT		.150	21/32X13/16X5/8"	3.65
-								_ 3.02
63 G 872	TA-30	Α	5K CT	7500 CT		.150	21/32X13/16X5/8"	3.65
63 G 873	TA-31	A	5K CT	10K CT		.150	21/32X13/16X5/8"	3.65
63 G 874	TA-32	A	5K CT	80K CT		.150	21/32X 13/16X5/8"	3.65
63 G 876	TA-34	A	10K	200 CT		.150	21/32X13/16X5/8"	3.65
	70.05	-						
63 G 877	TA-35	Α .	10K	2K CT		.150	21/32X13/16X5/8"	3.65
63 G 878	TA-36	A	10K	3K CT		.150	21/32X13/16X5/8"	3.65
63 G 880	TA-38	-A	500 CT	150 CT		.150	21/32X13/16X5/8"	3.65
63 G 888	TA-46	A	100K	1500 CT		.300	13/16X15/8X3/4"	3.65
63 G 477	TA-52	D	500 CT	500 CT		.300	13/16X15/8 X3/4"	2.99
61 G 128	TA-53	A	5000 CT	45000		.150	11/16X 13/16X5/8"	3.16
61 G 299	TA-54	A	20000	800 CT		.150	21/32X13/16X5/8"	2.89
			1 20000	, 000 01 1	• • • • •	.100	732A 716A78	2.07

DRIVER TRANSFORMERS

63 G 956	TA-5	D	1000	200 CT	10	.05	5/8×11/4×1/2"	4.70
63 G 957	TA-6	D ·	2000	200 CT	5	.05	5/8 x 1 1/4 x 1/2 "	5.32
63 G 958	TA-7	D	100	100 CT	100	.5	15/8 x2x13/8"	1.89
63 G 964		D#	200 CT	400 CT	10	2		4.02
-		- UT	200 01	400 01	10	.0	3x211/16x25/32"	4.02
63 G 858	TA-16	D	20	36 CT	400	1 .	13/16x21/16x11/8"	1.70
61 G 131	TA-58	D	100	200 CT	200	.5	11/4 x2x11/4"	2.13
63 G 478	TA-59	D	500 CT	200 CT		5	1½ x2x1½"	2.37
61 G 641				tio ea. Pri.	to 2 0	000		
01 0 0411	1 W-01	「ロサテ	1:1 13	ilo ea. PII.	10 2-3	ecs.	1115/16x23/8 x11/2"	2.55

MODULATION TRANSFORMER

63	G	0501	TA 17	1 A++1	OCT	175K	/EWI	120	1 25	3½x3x2½"	1 () (
103	CI	027	174-17	INIII	861	17.an	JON	120) 33	378X3XZ72	1 6.36

POWER TRANSFORMERS-117-V. AC PRIMARY

Stock No.	Туре	Fig.	Description	Size :-	EACH
63 G 966	TP-1	Att	2 Secs. each 13 or 18 v. AC, 900 ma. DC. For bridge rects.		
61 G 642	P-8196	A††	ma. DC. For bridge rects. Sec: 80 VCT; 1.2 A. @ 45 v. DC	3x3x2½" 3½x2¾x3½"	4.86

FILAMENT TRANSFORMERS

Single-secondary filament transformers. All are center-tapped except Type P6469 and Type P8190. Type P8191 designed for filament isolation, has 6.3 v. primary and secondary. All others, 117 v., 60 cycle, AC, *Illustrated on preceding page.

			FG		A 1 1 1 1 1 1			
Stock No.	Mfr's Type	Fig.	Volts	Amps	Insul.	Mtg. Ctrs.	Wt., Lbs.	NET
64 G 141	P6133		2.5	5.0	7500	213/16"	11/2	3.72
64 G 30 I	P3060	E	2.5 2.5	10.0	10KV	21/4×17/6"	21/2	6.59
64 G 262	P6467	D	5.0	3.0	2500	21/4×17/8" 213/16"	11/2	3.14
64 G 262 64 G 255	P3062	E	5.0	6.0	2500	2x2"	21/4	5.04
61 G 235	P6433	E	5 CT	15	2500	2x21/4"	1½ 2½ 1½ 2¼ 3	5.04
61 G 234	P6432	E	5 CT 5.0	21	2500	21/4×21/2" 3×23/4" 2×21/4"	41/2	8.16
64 G 888	P6492	A*	5.0	30.0	2500	3x23/4"	71/2	10.72
61 G 134	P6464	A*	6.3CT	10	2000	2x21/4"	31/2	6.80
64 G 887	P6465	D	6.3	.6	1500	2"	1/2	1.94
64 G 308	P6134	Ð	6.3	1.2	3000	23/8"	1	2.06
64 G 584	P8190	_D_	6.3	1.2	5000	213/16"	1	2.06
64 G 585	P8191	D	6.3	1.2	5000	213/16"	4½ 7½ 3½ ½ ½ 1 1	2.91 6.08 3.32 5.39 4.58 8.26
61 G 230	P6428	A* -	6.3	1.75	2500	2×115/16#	3	6.08
64 G 263	P6466	D	6.3	3.0	2500	213/16"	11/2	3.32
61 G 232	P6430	A*	6.3CT	3.0	2500	2 ¹³ / ₁₆ " 2x1 ¹³ / ₁₆ " 2x1 ³ / ₄ "	1½ 23/4	5.39
64 G 309	P5014	E	6.3	3.0	2500	$2 \times 1^{3/4}$	2	4.58
61 G 231	P6429	A*	6.3	3.5	2500	21/2 x 23/16"	4 ³ / ₄ 2 ¹ / ₂	8.26
64 G 256	P4019	<u>A*</u>	6.3	4.0	2500	2x111/16"	21/2	4.94
64 G 264	P4089	A*	6.3	6.0	2500	21/4 x2" 2x2"	3½ 2½ 4¾ 3½ 6¾	6.49 5.31 8.17
64 G 312 61 G 233 64 G 313 64 G 265	P3064	E	6.3 6.3CT	6.0	2500	2x2"	21/2	5.31
61 G 233	P6431	A*	0.3CT	6.0	2500	21/2×23/16"	43/4	8.17
64 G 313	P6308	F	6.3	10.0	2500	21/4×23/16"	31/2	6.46
64 G 265	P6309	F	0.5	20.0	2500	3x2 ³ / ₈ " 2x2 ¹ / ₈ "	63/4	10.01
64 G 314	P5015		7.5	4.0	2500	2x21/8"	3	4.65
64 G 257	P5016	E	10.0	4.0	2500	21/4×21/8"	31/4	5.93 7.35
.64 G 318	P6139	F	10.0	8.0	2500	$2\frac{1}{2} \times 2\frac{3}{8}$ "	-	7.35
64 G 258	P4097	A* D	10.0	8.0	2500	2½x2½6"	51/4 11/2 11/2 2	7.66 3.36 3.20 3.74
64 G 142	P8130 P6469	Б	12.6 25.2	2.0	1500	213/16"	1 1/2	3.36
64 G 143	P6456	D	6.3T	1.0	1500	213/16"	1 1/2	3.20
01 9 2001	10430	D	0.51	6.0	2000	31/8"	2	3.74

UNIVERSAL OUTPUT TRANSFORMERS

Replacement units for radio and television and other audio applications. Multi-tapped windings match various types of output tubes and circuits such as single-ended and push-pull plates to voice coil or line. All are Fig. G except *Fig. H. All secondaries match voice coil except †500 ohms; \$500, 333, 200, 125, 50 ohms. Wt., 1½ lbs.

Stock No.	Mfr's Type	Primary	Watts	Size	NET
64 G 294 64 G 005 64 G 026 64 G 242	A3822 A3823	5K; 10, 20K CT 7-10K 4-14K CT 6-10K CT	(15 ma) 4 8 8	2x3¼x1¾″ 1¾x2¾x1¾″ 1½x2½x1½″ 2x3¼x2″	4.11 1.91 3.30 3.23
64 G 002	A3825	1.5-4.5K	8	2x3½x15%"	2.58
64 G 028	A3830*	3-10K CT	20	211½x35½x2½"	4.41
64 G 293	A3841*†	2.5, 4, 5, 6, 7K	10	211½x35½x2½"	4.90
64 G 023	A3849	1.5-10K	10	15½x2½x1½"	3.30
64 G 024	A3850*	4-14K CT	8	2x2¾x1½"	3.25
64 G 027	A3852*	4-14K CT	18	25/6x27/8x2"	3.99
64 G 025	A3856	4-14K CT	4	13/8x23/8x13/8"	2.84
64 G 029	A3870	4-14K CT	18	2x31/4x2"	4.07
64 G 292	A3880	4-14K CT	15	21/4x33/4x21/4"	4.30

DRIVER TRANSFORMERS

Single plate (10,000 ohms primary impedance) to push-pull grids. For use between first audio and push-pull output stage. $\frac{5}{4}x\frac{5}{6}$ core except for A-4752 which has $\frac{3}{4}x\frac{3}{4}$ core. (Fig. D.)

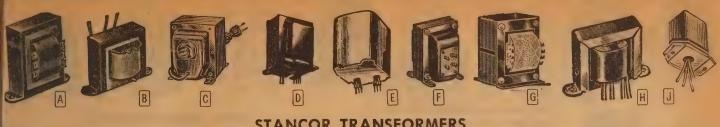
Stock	Mfr's	Pri./½ Sec.	Max.	Size	Wt.,	NET
No.	Type	Ratio	Pri. DC.		Lbs.	EACH
64 G 076 64 G 038 64 G 039		2:1 3:1 2/15/1:1	30 ma 30 ma	15/8 x27/8 x11/8" 15/8 x27/8 x11/2" 2 x 31/4 x 13/4"	1 116	2.08

SELENIUM RECTIFIER TRANSFORMERS

For low voltage, high current applications. Use with CT or bridge rectifier circuits. For 117 v., 50-60 cycle AC. With wiring chart.

Stock	Mfr's	Range of	Ma	ix. DC O	utput Loa	d i	Cine 's	Wt.,	NET
No.	Type	AC Volts	Resi	stive	Capac	itive	Size	Lbs.	
64 G 372	RT-201	11.7 to 29.4	11.2v	@ 2.0A	13.8v @	2.0A	31/8 x 21/2 x 33/8"	21/2	4.97
64 G 373	RT-202	11.1 to 28.5 12.0 to 29.8 12.0 to 29.8	11.1v	@ 4.0A	14.7v @	4.0A	35/8×21/8×31/2"	4	6.75
64 G 374							4x3½x4½"	61/4	8.73
64 G 375		11.6 to 29.2 12.0 to 29.7 12.0 to 29.7	11.5v	@ 12.0A	14.4v @	12.0A	41/4 x37/16x51/8"	91/4	11.87
64 G 376	RT-208	12.1 to 29.2	11.4v	@ 15.0A	14.8v @	15.0A		121/2	14.95
64 GU 378	RT-2012	12.1 to 29.2 12.2 to 29.0 12.2 to 29.0	11.4v	@ 22.5A	14.3v @	22,5A	53/8x43/8x63/8"	21	22.05
61 G 135	P8193						33/4 x31/8 x35/8"	6	8.44
61 G 136	P8194		14.0v	@ 2.5A	17.0v @ 34.0v @ 38.0v @	2.0A	4½ x3¾ x4"	10	14.35

Stancor, Acrosound, Acme Transformers



STANCOR TRANSFORMERS

LINE-TO-VOICE-COIL TRANSFORMERS

For matching speakers to lines. Type A3837 is autotransformer for matching parallel speakers to line. Transformers for constant voltage lines are \$140 volt; \$70.7 volt; and \$25 volt. \$\dagger* Power taps in watts when consecuted to appropriate line. connected to appropriate line.

Stock No.	Mfr's Type	Fig.	Primary Imp.	Secondary Imp.	Watts	Mtg. Ctrs.	Wt., Lbs.	EACH
64 G 087	A3818 A3837	A	1500/1000/500 500/1000	15/8/4 .06 to 8, .12 to 16	25	31/8"	21/2	4.82
64 G 088	A3637	^	1500/2000	.18 to 24, .24 to 32			72/	2.02
64 G 098	A3883	Α	2500/3000 500	.30 to 40, .36 to 48 15/8/6/4	15 25	23/8" 23/8"	1¾ 1¼	3.93 3.38
64 G 085	A7947	В	2000/1500/	6-8/3.2	8	23/8"	3/4	2.87
64 G 086	A7949	A	2000/1500/			02/4	11/	2.27
61 G 296	A8080*	В	1000/500 5 /4 /3 /2 /1†	6-8/3.2 8/16	12 5	2¾s" 2"	11/4	3.37 2.85
	A8081* A8082*	A	10/9/8/7/6†	8/16	10	2"	3/4	3.10
		Н	11†	8/16	15 2	23/8"	11/4	3.59
61 G 643	A8087 §	H	2/1/.5†	8	2 5	2"	1/3 1/3	2.45
61 G 201	A8095§	В	5/2.5/1.25 .62/.31†	4/8			1/2	2.64
61 G 202	A8096 §	A	8/4/2/1/0.5†	4/8/16	- 8	2"	3/4	3.53
61 G 203	A8097 §	A	16/8/4/2 1/0.5†	4/8/16	16	213/16"	11/2	4.23
61 G 645			2/1/.5†	4/8	2 5	13/4"	1/4	2.45
64 G 089	A8101 A8102*	B	500 8/4/2/1/.5†	3.2/6-8	8	2"	3/4	3.43
64 G 092			16/8/4/2/		16		1½	4.85
	40101	_	1/.5†	4/8/16	10	213/16"	172	4.05
64 G 099		Α.	3000/2000/ 1500/1000/500	16/8/4	10	23/8"	11/2	3.99
64 G 889	A8105*	В	5/2.5/1.25/	4/8	5	2"	1/2	2.78
64 G 890	A8106‡	A	8/4/2/1+	4/8/16	8	2"	3/4	2.94
64 G 891	A8107‡	A	16/8/4/2/1†	4/8/16	16	213/16"	13/4	4.64
61 G 646	HOTUST	1 17	1 2/1/21 "	14/0	1 4	1 4/4.	1 /4	2.73

HIGH-FIDELITY OUTPUT TRANSFORMERS

Freq. response of 20-20,000 cycles ± 1 db at rated watts. Max. power 50 w. except A8098, 15 w.; A8072, 25 w. *With screen taps. Size: $x3\%6x4\frac{1}{4}$ except A8098, $3\%6x2x2\frac{1}{4}$; $3\frac{1}{2}$ lbs. All others, 7 lbs., each.

Stock No.	Mfr's Type	Pri. Imp.	Sec.	Max. Pri. DC Per Half	Watts EACH
64 G 563 64 G 570 64 G 564 64 G 574 64 G 183	A-8056 A-8054 A-8072*	9000	8, 16 8, 16 8, 16 4, 8, 16 8, 16, 32	150 ma 125 ma 100 ma 100 ma 140 ma	25 13.36 25 13.36 25 13.36 16.27 15 7.98

ISOLATION TRANSFORMERS

Ideal for isolating transformerless (AC-DC type) radios and TV sets from AC power line. *Primary is tapped for 105, 115 and 125 volts; 115-volt secondary with standard outlet. †Has 115-volt primary and tapped secondary with 3 standard outlets for 105, 115 and 125 volts; includes built-in electrostatic shield grounded to core. §115-volt primary and 115-volt secondary; standard outlet. All have line cord and plug.

Stock No.	Type	Watts	Size	Fig.	Lbs.	NET
64 G 449	P-6410\$	50	3%6×215%6×31/8"	COECC	4	7.77
64 G 443	P-6160*	100	434×4×31/8"		7	14.19
64 G 475	P-6371\$	175	55%6×46%6×51/4"		9	18.95
64 G 444	P-6415†	350	538×41/2×53/4"		17	23.05
64 GU 448	P-6298*	500	758×61/8×75/8"		28	42.27

AIR CONDITIONER AUTOTRANSFORMERS



Type PSU-3000. Similar to PSU-2000, but designed for larger air conditioners. Supplies enough power to drive a 1 to 2-hp. motor of the type used in 1 to 2 ton conditioners. Converts 208-volt unit to 230 volts, or 230-volt unit to 208. 4x6x4½. Shpg. wt., 10 lbs.

63 G 968. NET EACH.

OSCILLOSCOPE TRANSFORMER

9.03



INTERCOM AND TRANSCEIVER TRANSFORMERS

Type A-4744 is similar to Fig. H mounting type but with side shells. Types A-8090 and A-8091 are similar to Fig. H but with solder lug secondary connections. Type A-3833 is Fig. H type. Type A-4749 is Fig. J. Type A-3817 modulation and output transformer is designed especially for use in Citizens Band equipment. *3 watts, †8 watts. \$5 watts. Type A-3833 is for microphone input or plate to grid. Av. shpg. wt., 1 lb.

Stock	Mfr's	Application	Imp.,	Ohms	Cina HWD	NET
No.	Туре	Application	Pri.	Sec.	Size, HWD	EA.
64 G 030 64 G 489 64 G 490 64 G 031	A-4744 A-8090* A-8091† A-3833§	V.C. to grid Line to V.C. Line to V.C. Transceiver	4 45-50 45-50 200 & 5K	25K 3-4,6-8 3-4,6-8 60K	115/6x23/8x11/2" 13/8x23/8x11/2" 13/8x23/8x11/2" 15/8x23/8x11/2" 15/8x23/8x11/2" 15/6x111/6x21/4"	2.94 1.98 1.73 2.06 2.81 4.75

CONTROL TRANSFORMERS

Fig. A, except *Fig. G. 2-section secondary for series or parallel operation. For 115 or 230 v., 50-60 cycle AC.

Stock	Mfr's	Secondary		Size	Mtg.	Wt.	NET
No.	Type	Parallel	Series	3126	Ctrs.	Lbs.	EACH
63 G 276 63 G 277 63 G 278 63 G 279 63 G 280	P6376 P6377 P6378*		12V@1A 12V@2A 24V@2A 24V@4A 24V@8A	2%x2%x1¾" 35%x3%x2¼" 31%x35%x2¾" 33%x27%x3" 41%x31½x3½"	23/8" 21 3/16" 31/8" 21/4 x21/4" 3x23/4"	1 1½ 2½ 4¼ 8	3.27 3.71 4.69 7.57 13.06

POLY-PEDANCE MODULATION TRANSFORMERS

Match Class "B" modulators to Class "C" load impedances in Amateur and commercial transmitters. Multi-tapped primary and secondary windings match load impedances from 2000 to 20,000 ohms.

Stock	Mfr's	Max. DC	Output Load		6:	Wt	NET
No.	Type	Primary Secondary		Watts	Size	Lbs.	EACH
64 G 478		180 ma.	180 ma.	60	4x3½x4½"	7	12.90
64 G 488	A-3894	225 ma.	225 ma.	125	43/4 x4x45/8"	10	16.25

TUBE CHECKER TRANSFORMER

B Type P-1834-3. Multiple-secondary transformer. Pri.: 125/115/105 v., 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/4.0/5.0/6.3/7.0/7.5/12/20/25/30/35/50/70/85/110/117. Mtg. Ctrs. 3%. Size, 2%x4x2½. Shpg. wt., 2½ lbs. 9.92

MICROPHONE TRANSFORMERS

Type A4350 is for microphone-to-line or line-to-line. Others for microphone, pickup or line-to-grid, A4350 and A4352 are Fig. G. A4705 is Fig. D, and A4351 is Fig. D, on page 357, *Center-tapped. †Same as primary impedance.

Stock No.	Туре	Primary Ohms	Sec. Ohms	Mtg. Ctrs.	Lbs.	NET
64 G 094 64 G 097 64 G 093 64 G 096	A4351 A4352	500*/333/200*/125/50 500*/333/200*/125/50 500*/333/200*/125/50 200/70	89,000	213/16" 23/8 x11½" 213/16" 2"	1 11/2 1 1/2	4.24 4.54 4.70 2.91

ACME VARIABLE VOLTAGE ADJUSTERS

Type T8394M. Expecially designed for use with television sets. Rated 300 watts; used as stepup or step-down transformer to correct for either low or high line voltage. Easily adjusted by manually turning 7-position rotary switch until built-in voltmeter reads 115 volts output. Input switch positions for 95, 100, 105, 110, 115, 120, 125 volts at 50-60 cycles. Features simple, "plug-in" installation (built-in AC receptacle and 8 ft. line cord). Constant-duty type. Size, 4¾x4x5". Shpg. wt., 9 lbs. 62 G 514. NET.

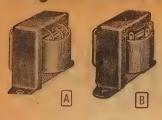




Allied maintains the world's largest, most comprehensive stocks of transformers and other electronic components. If the transformer you require isn't listed here, contact us for price and other information on any type not shown. You will receive a prompt reply.

11.55

Transformers and Chokes





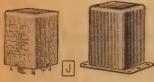












Allied's own line of quality transformers and chokes. Built from finest materials to highest standards for peak performance and long life; priced for outstanding value.

FILAMENT TRANSFORMERS

Primaries, 117 v., 50-60 cycle AC. All center-tapped, except †. *107 v. tap on primary. §Has electrostatic shield.

Stock No.	Fig.	V	Amps.	Insul., RMS V	Size	Wt., Lbs.	NET
61 G 478	F	2.5	5.0	5000	23/4 x3 1/8 x2 1/8"	13/4	2.86
61 G 474	H	2.5	10.0	2500	33/16x25/8x211/16"	23/4	4.06
61 G 475.	A	5.0	3.0	2500	2x31/4x2"	11/2	2.52
62 G 028	A	5.0	6.0	2500	23/8×35/8×21/4"	13/4	3.03
61 G 416	A	6.3	0.6	1500	$1\frac{3}{8} \times 2\frac{3}{8} \times 1\frac{5}{8}''$	1/2	1.43
62 G 030	A	6.3	1.0	1500	15/8 x 213/16 x 13/4"	3/4	1.50
61 G 419	A	6.3	1.2	3000	15/8×213/16×17/8"	3/4	1.51
62 G 031	A	6.3	3.0	2500	2x31/4x23/8"	11/2	2.46
61 G 477	H	*86.3	4.0	2500	33/16x25/8x211/16"	23/4	4.11
61 G 417	D	6.3	6.0	2500	3x21/2x21/4"	21/2	3.92
61 G 418	D.	*6.3	10.0	2500	33/8×213/16×27/8"	3½ 1½ 1½	4.78
61 G 420	A	12.6	2.0	1500	2x31/4x21/4"	11/2	2.49
61 G 421	A	†25.2	1.0	1500	2x3 1/4x2 1/8"	11/2	2,36
61 G 476	A	26.5	0.6	3000	2x3½x2"	11/2	2.26

UNIVERSAL OUTPUT TRANSFORMERS

CT primary, except *single-ended output. 6 taps on secondary Match single or push-pull tubes to speaker voice coil. †Fig. C.

Stock No.	Primary Impedances	Watts	Mtg.	Wt., Lbs.	NET EACH
62 G 023	2000-14,000 ohms	4	2"	1/2	1.77
62 G 021	2000-14,000 ohms	8	23/8"	3/4	1.99
61 G 452	†2000-14,000 ohms	8	2"	3/4	2.28
62 G 022	†2000-14,000 ohms	18	23/8"	11/4	2.84
6 G 453	6000-10,000 ohms	8	213/16"	11/4	2.54
6 G 404	*7000-10,000 ohms	4	2"		1.37
6 G 454	5K, 10K, 20K ohms	15 ma.	213/16"		3.04

FIXED-IMPEDANCE OUTPUT TRANSFORMERS
For a wide variety of audio applications. All have center-tapped primary for push-pull operation.

	Sto	ck .	Fin	Impe	dance, Ohms	Audio	Mtg.	Wt	NET
- 1	No. Pr		Primary	Secondary	Watts	Centers	Lbs.	EACH	
6	1 G	457 455 456	A	4000 66K 25K	8/16/32 4/8/15/250/500 4	7½ 35 .5	3½" 2½x2¼" 2"	13/4 51/4 1/2	3.04 7.20 1.65

FILTER CHOKES

Excellent for receivers, low-power transmitters, etc. 1500 v. rms insulation except *2000 v. †3000 v. §Fig. D. ‡Fig. H.

Stock No.	Hys.	Ma.	Res., Ohms	Mtg. Ctrs.	Wt., Lbs.	NET EACH
6 G 405 6 G 479 6 G 480	0.8 *1.0 †1.5	375 300 10	25 40 95	31/8" 31/8" 13/4"	11/4	2.49 2.44 1.20
61 G 406 61 G 481	1.5 2.0	200 200	60	2 ³ / ₈ " 3 ¹ / ₈ "	13/4	1.30 2.34
61 G 482 61 G 483 61 G 407	2.3 *3.0 3.5	150 150 50	60 97 200	2 ¹³ / ₁₆ " 3 ¹ / ₈ " 2 ³ / ₈ "	1 13/4	1.84 2.08 1.18
62 G 135 61 G 408	5.5	50 50	330 550	2" 2"	1/2	.93 1.03
61 G 484 61 G 485 62 G 136	7.0 8.0 8.5	150 85 50	200 260 400	39/16" 213/16" 23/8"	21/4	2.94
61 G 409 62 G 139	†§8.5 10.5	200 110	140 220	21/4×21/8" 39/16"	31/2 21/4	.98 5.40 2.49
61 G 486 61 G 487 62 G 138	‡12/8/4 13.0	100/150/200	145 385	2x1 ³ / ₄ " 2 ¹³ / ₁₆ "	23/4	3.58
62 G 137 61 G 488	15.0 16.0 ‡16.0	75 50 80	400 550 365	3 ½" 213/16" 2x13/4"	1 ³ / ₄ 1 2 ³ / ₄	2.09 1.57 3.84
61 G 489	20.0	15	900	23/8"	3/4	1.64

Variable Isolation Transformer. Rated 150 watts, 115 v. output; 90-250 v, 50-60 cps input. Mtg. ctrs., 3x3½". 9 lbs. 3.11 61 G 490. As above. Rated 100 watts, 115 v. output; 105-125 v., 50-60 cps input. Mtg. ctrs., 3x2½". 7½ lbs. NET. 11.85

MINIATURE INTERCOM AND TRANSCEIVER **TRANSFORMERS**

*Transceiver input, mike and plate to grid. †Intercom input, VC to grid. \$Line to VC. 61 G 493 is Fig. B. Av. shpg. wt., ½ lb.

Stock	Impedan	ce, Ohms	Audio	Mta.	NET	
No.	Primary	Secondary	Watts	Ctrs.	EACH	
61 G 491 61 G 492 61 G 493	*200/5000 †4 §45/50	60,000 25,000 3-4, 6-8	5	2 ³ / ₈ " 2" 2"	2.08 1.65 1.44	

POWER TRANSFORMERS

A complete selection of highly efficient power supply transformers recommended for radio set replacement use, home hobbyists, etc.Fully shielded; heavy-duty 5" flexible coded leads. All plate windings centertapped, except *half-wave type; for 6AX5, 6X4, 6X5 and similar 6.3 v. filament rectifiers and for selenium rectifier. CT 6.3 v. winding except † has 2—6.3 v. windings not CT. 110-120 volt, 50-60 cycle primaries.

Stock	1.	Pla	te	5 V	6.3 V	Mtg.	Wt.,	NET
No.	Fig.	VCT	Ma.	at	at	Ctrs.	Lbs.	EACH
61 G 410 61 G 411 62 G 008 61 G 461 62 G 034	FAFHG	*125 125 250 460 480	15 50 25 50 40	ŽĀ	†0.6A †2A †1A †2.5A 2A	2" 31/8" 23/8" 2x13/4" 21/2x2"	1 1/2 1 23/4 23/4	1.72 2.78 2.05 3.87 4.00
61 G 427 61 G 462 61 G 463 61 G 464 61 G 465	H H H H	480 480 480 500 520	40 55 70 70 90	2A 2A 2A	2A 2A †3A 2.5A †4A	2x1 ¹ / ₁₆ " 2x1 ³ / ₄ " 2x1 ⁷ / ₈ " 2x2 ¹ / ₈ " 2/ ₄ x2/ ₁₆ "	2 ³ / ₄ 3 3 3 ¹ / ₂ 3 ³ / ₄	4.00 4.50 4.48 5.20 5.26
6 G 444 6 G 4 2 6 G 466 6 G 467 6 G 468	G H H G G	520 520 540 550 600	90 90 120 50 70	2A 2A 3A 2A 2A	3A 3A 3.5A 2.5A 3A	213/6×21/4" 21/4×21/4" 21/2×21/4" 21/2×2" 21/2×2"	4 4 5 3 ³ / ₄ 3 ³ / ₄	5.10 5.10 7.35 5.85 6.32
61 G 469 62 G 041 61 G 413 61 G 470 62 G 042	ССИНС	600 650 650 650 650	120 40 40 55 70	3A 2A 2A 2A 3A	5A 2A 2A 2A 2A 3.5A	3½x2½" 2½x2" 2x1½6" 2x2½" 2½x2"	6 2½ 2½ 3½ 4¼	7.90 4.16 4.16 4.96 4.34
61 G 428 61 G 471 61 G 472 62 G 043 61 G 429	H G H G H	650 650 680 700 700	70 150 70 90 90	3A 3A 2A 3A 3A	3.5A 5A 2.5A 3.5A 3.5A	2x2 ³ / ₄ " 3 ¹ / ₈ x2 ¹ / ₂ " 2 ¹ / ₄ x2 ³ / ₁₆ " 2 ¹ / ₆ x2 ¹ / ₄ " 2 ¹ / ₄ x2 ³ / ₈ "	4!/4 7!/2 4 4!/2 4!/4	4.34 7.80 5.98 5.75 5.75
62 G 044 61 G 430 62 G 045 61 G 431 62 G 033	G H G H G	700 700 750 750 800	120 120 150 150 200	3A 3A 3A 3A 3A	4.7A 4.7A 5A 5A 5A 5A	3½x2½" 2½x2½6" 3½x2½" 2½x3½6" 3¾x3%6"	53/4 53/4 61/2 61/2 8	6.76 6.75 8.72 8.72 9.06
61 G 414 61 G 473	H	800 1200	200	3A 3A	5A †3A	3x2 ¹³ / ₁₆ "	7 ³ / ₄ 9 ¹ / ₂	9.06

STANDARD OUTPUT TRANSFORMERS

For coupling plate of output tube to the speaker voice coil. Designed for class A amplifiers. Secondary imp., 3.2 ohms, except *3.5, †4 ohms, and ‡6-8 ohms. §4.5% primary tap. **Fig. F. Shpg. wt., 3/4 lb.

Stock	Prima	ry	Audio	Size,	NET
No.	Imp.	Ma	Watts	H.W.D.	EACH
61 G 401 62 G 065 61 G 445 61 G 402 62 G 063 61 G 400	2000 2000 \$*2000 †2000 2500 *4000	50 50 60 60 50	355533	1½x2½x1¼″ 1½x2½x1½″ 1½x2½x1½″ 1½x2½x1½″ 1½x2½x1¾x″ 1½x2½x1¾x″	1.02 1.00 1.48 1.70 1.07
62 G 064 61 G 403 61 G 446 61 G 447 62 G 093 61 G 448 61 G 449	5000 †5000 **5000 **5000 †7000 8000 †10,000 †25,000	40 40 40 30 20 30 5	3 5 10 5 3 5 5	1/4x2/sx13/s" 1/8x23/sx13/s" 23/sx27/sx17/s" 13/sx23/sx13/s" 1/4x21/sx13/s" 1/4x22/sx13/s" 13/sx23/sx13/s"	1.07 1.07 1.89 1.25 1.00 1.20

AUDIO TRANSFORMERS

Primary ma., 10 maximum. Single plate to PP grid except, *single plate to single grid, †single or PP plate to PP grids. Size, ½x½". Shpg. wt., ½ lb.

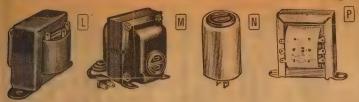
Stock	Impedanc	e, Ohms	Turns	1. 2. 12 - 12 to 1	NET	
No.	Pri.	Sec.	Ratio	Size		
62 G 062 61 G 415 61 G 458 61 G 459 61 G 460	*7000 7000-15K 10,000 10,000 †10,000 CT	20,000 40,000 CT 90,000 CT 90,000 CT	1:3 1:3 1:2 1:3 1:3	13/8 x23/8 x13/8" 13/8 x23/8 x13/8" 13/8 x23/8 x11/2" 2x31/4 x2" 15/8 x27/8 x11/2"	1.47 1.74 1.74 2.64 2.18	

HIGH-FIDELITY PUSH-PULL OUTPUT TRANSFORMERS

For use in high-fidelity audio amplifiers. All have screen taps on primary winding for ultra-linear type operation and have a frequency response flat from 15 to 35,000 cps, except *which do not have screen taps and have a frequency response flat from 20 to 20,000 cps. All have 4, 8 and 16 ohm secondaries. †Maximum DC in each half of primary.

Stock No.	Fig.	Watts	P-P Imp.	†Ma	Size	Wt., Lbs.	NET
62 G 082 62 G 018	Ţ	12 *18	8000 8000	60 65	3 ³ / ₄ x3x3 ¹ / ₄ "	31/2	7.90 8.50
62 G 083 62 G 019	K	24 30	6600	75 100	41/4×35/8×41/2" 41/4×35/8×41/2"	61/2	13.01
62 G 024 62 G 058	H	12 *18	8000 8000	60	31/8×25/8×23/4"	21/2	6.76
62 G 054 62 G 059	H	24 30	6600	· 75	25/8x4x21/2" 37/8x31/4x37/8" 37/8x31/4x4"	6 6	5.35 11.35

Knight, Dynaco and Triad Transformers



KNIGHT TRANSFORMERS

Skillfully constructed line-matching, step-down and isolation transformers; made to rigid specifications and low in cost.

70.7-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

Secondaries: 4, 8, 16 ohms, except *3.2-4, 6-8. †High-fidelity type.

Stock No.	Fig.	Watt Taps	Max. Watts	Size	Wt., Lbs.	NET EACH
61 G 440 62 G 081 61 G 422 62 G 077	LP	2, 1, .5 5, 2.5, 1.25, .62, .31 8, 4, 2, 1, 0.5 10, 5, 2.5, 1.25, .62	*2 *5 8 10	13/16x21/16x11/4" 13/6x23/8x11/2" 2x23/8x15/8" 15/8x213/16x15/8"	1/4 3/4 3/4 3/4 3/4	1.93 1.92 2.54 2.41
62 G 078 61 G 450 62 G 079 61 G 441	P	18, 9, 4.5, 2.25, 1.12, .56 16, 8, 4, 2, 1, 0.5 24, 12, 6, 3, 1.5, .75 5, 2.5, 1.25, .625, .31	18 16 24 †5	23/8 x21/8 x11/8" 23/4 x31/8 x21/4" 21/4 x31 1/16 x21/4" 15/8 x21 3/16 x15/8"	1 ³ / ₄ 2 1 ³ / ₄ 3/ ₄	2.95 3.89 3.54 2.53

25-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

6 G 437 L 6 G 438 L	2, 1, 0.5 5, 2.5, 1.25, 0.625, 0.31 10, 5, 2.5, 1.25, 0.625 18, 9, 4.5, 2.25, 1.12	*5 10	13/16x21/16x11/4" 15/8x213/16x15/8" 21/4x311/16x2" 25/8x4x21/4"	3/4 13/4	1.89 2.20 3.13 3.73
6 G 439 L	18, 9, 4.5, 2.25, 1.12	18	25/8 x4x21/4"	21/2	∣3.

STANDARD LINE-TO-VOICE-COIL TRANSFORMERS

500-ohm primary except *2000/1500/1000/500 and \$3000/2000/1500/1000/500 ohms, †Fig. P.

Stock No.	Sec. Imp., Ohms,	Audio Watts	Size	Wt., Lbs.	NET EACH 1.70' 1.29 2.10	
6 G 442 6 G 423 6 G 425	4-8 6-8/3.2 6-8/3.2	*4 5 *8	13/8 x 23/8 x 1 1/2" 13/8 x 23/8 x 1 1/2" 15/8 x 213/16 x 15/8"	1/2 1/2 3/4		
61 G 443 61 G 451 61 G 424	4-8 4/8/16 15/8/6/4	*12 †§10 †25	2x3½x1½" 23/8x2½x1½" 23/8x2½x1½"	13/4 13/4 13/4	2.30 2.77 2.49	

230-TO-115 VOLT AUTOTRANSFORMERS

Well-built step-down transformers for reducing 220-250 volts, 50-60 cycles AC to 110-125 volts. For operating tape recorders, radios, amplifiers, household appliances, etc. Shielded construction. With 8-ft. cord and plug. Female outlet on case. *Fig. N.

Stock No.	Watts	Size	Wt., Lbs.	NET EACH
61 G 494	*8	3 ³ / ₄ ×1 ¹ / ₁₆ "	1	3.00
62 G 510	80	3 ⁵ / ₈ ×3×3 ¹ / ₄ "	31/4	5.70
62 G 511	150	4×3 ³ / ₈ ×3 ⁵ / ₈ "	43/4	7.20
62 G 512	250	4 ⁵ / ₈ ×3 ⁷ / ₈ ×4 ¹ / ₄ "	73/4	9.45
62 G 513	500	4 ⁵ / ₈ ×3 ⁷ / ₈ ×4 ³ / ₄ "	11	13.00
6 G 434	750	5½x45/8x5"	13 ³ / ₄	16.33
6 G 432	1000	5½x45/8x5¼"	14 ³ / ₄	20.33
6 G 435	1500	6x4½x55/8"	20	24.00
6 G 433	2000	6x4½x63/8"	25	27.20

ISOLATION TRANSFORMERS

Isolation Transformers. Reduce shock hazard by isolating test units, or equipment under test, from line. For 115 volts, 50-60 cycle . With 6-ft. cord, plug and output receptacle.

Stock No.	Watts	Size H.W.D.	Wt., Lbs.	NET EACH
61 G 426	50	35/8 x3x33/8" 43/8 x35/8 x4"	3 1/2	5.67
62 G 086 62 G 087	100 250	45/8 x37/8 x45/8"	121/2	17.50

DYNACO SUPER-FIDELITY TRANSFORMERS

Outstanding line of hi-fi output transformers for the most discriminating hi-fi builder. Feature specially designed, para-coupled windings which provide an accurately balanced coil with tight coupling between sections. The low distortion resulting from this design provides greater definition of audio detail and contributes to the response of any amplifier in which this unit is used. Designed for substantial reserve of power handling capacity to permit full, undistorted power output at extreme high and low frequencies as well as in the middle of the audio spectrum. Para-coupled arrangement reduces middle and high frequency distortion, while a massive core of thin-gauge grain-oriented steel provides distortionless transmission of high level, low frequency signal components. Critical balancing of the output tubes is virtually eliminated. Windings are sealed in steel cans with high temperature potting compound. Type A-440 has tertiary winding with taps for connection in either screen or cathode circuits; all others have screen taps on primary, 8 and 16 ohm secondaries except *4, 8, 16 ohms; †4, 8, 16 ohms and 70.7 volt.



	205-1	D-: 1	Output	Watts at:	Size	Wt	NET
Stock No.	Mfr's Type	Pri. Oh ms	30 to 15,000 cps	20 to 20,000 cps		Lbs.	EACH
61 G 981	A-410	8000	30	15	3¾ x3x2½"	5	14.95
61 G 982	A-420	6600	60	30	4½ x3½ x3¾"	7	19.95
61 G 983	A-430	4300	120	60	5x4½ x4"	14	29.95
61 G 984	A-431*	4300	120	60	5x4% x4"	14	34.95
61 G 985		4300	120	60	5x45/8x4"	14	39.95
61 GU 986		4300	240	120	6x43/4x51/8"	24	39.95
61 GU 987		2200	240	120	6x43/4x51/8"	23	39.95













TRIAD TRANSFORMERS

Quality transformers widely used in military and commercial applications. Excellent for use in audio circuits. Allied stocks the complete line of Triad transformers—write for information on any not shown here.

POWER TRANSFORMERS

Last letter in Type indicates fig. above. *CT. For 115 v., 60 cycle AC

Stock	Mfr's	Plat	е	Filaments			Mtg.	Wt.	NET	
No.	Туре	Volts	Ma	Volts	Amps	Volts	Amps	Ctrs.	Lbs	EACH
61 G 901 64 G 936 64 G 976 64 G 977 61 G 900	R-4A R-5A	135 500* 500* 600* 480*	15 20 40 65 50	5	2	6.3 6.3* 6.3* 6.3* 6.3*	.9 2 2 2.7 2	1½" 1¾ x1¾" 1 1 3/16x1½" 2x1½" 2x1½"	1 1 ³ / ₄ 1 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄	4.05 6.00 6.15 6.90 7.32
64G 978 61G 902 64G 979 61G 903 64G 986	R-8A R-9A R-10A	600* 500* 600* 525* 700*	50 75 75 90 90	5 5 5 5	2 2 2 2 2	6.3* 6.3* 6.3* 6.3* 6.3*	2 2.5 3 5 3.5	2x1 ½" 2x2¾" 2½ x2½" 2¼ x2½" 2¼ x2½" 2¼ x25%"	2 ³ / ₄ 3 3 ¹ / ₂ 4 ¹ / ₂ 4 ¹ / ₄	7.38 7.68 8.49 8.91 9.27
61 G 904 64 G 987 61 G 905 61 G 906 61 G 907	R-14A R-16A	550* 700* 700* 750* 700*	110 125 160 175 200	5 5 5 5 5	2 3 3 3 3	6.3* 6.3* 6.3* 6.3*	5 4.5 5 8	2½ x2¼" 2½ x2¾" 2½ x3¼" 2¾ x3¼" 2¾ x3¼"	4½ 6 7 8½ 9¼	9.33 10.41 11.67 12.66 13.80
61G 908 61G 909 61G 910 61G 911	R-29A R-30X R-54X	800* 230* 135 115 900*	200 40 50 15 250	5	3	6.3* 6.3* 6.3 6.3 6.3*/6.3	6 1.5 1.5 .6 2/4	2 ³ / ₄ x3 ³ / ₄ " 1 ³ / ₄ x1 ⁵ / ₈ " 3 ¹ / ₈ " 2 ³ / ₈ " 3x3 ⁵ / ₈ "	9½ 1¾ 1½ 1 12	14.31 5.85 4.89 3.63 17.01
6 G 9 4 6 G 9 5 6 G 9 6 6 G 9 7	R-56A R-68A R-41C	135 130 800* 880* 1250 1600	200 20 30 125 5 3	5/5/	2 3 1.75/1.75 1/3/	6.3* 22.5/30 6.3/6.3 6.3 5 6.3/6.3	5.5 .6/.6 1.2/1.2 .6 3 1/3	213/16x21/4" 13/4 x2" 2x23/8" 37/16x23/4" 21/2 x2"	2 ³ / ₄ 2 3 7 ¹ / ₂ 3 ¹ / ₂	8.67 6.90 10.32 16.86
				12.5/2.5	1/3			1		110.32

FILAMENT TRANSFORMERS

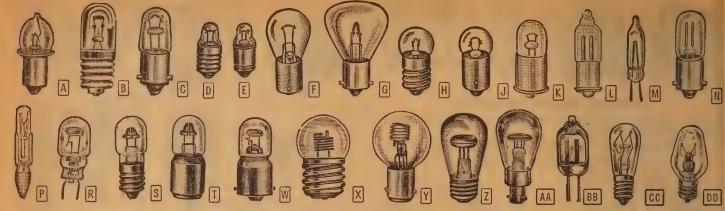
For operation from 113 v., to cycle 110.										
Stock No.	Mfr's	Sec.	Sec.	Insul.	Size	Wt.,	NET			
	Type	Volts	Amps	Volts	(HWD)	Lbs.	EACH			
61 G 931	F-1X	2.5CT	3	1500	15/8 x2 ¹ 3/16 x15/8"	1 ³ / ₄	2.61			
61 G 932	F-3X	2.5CT	10	3000	2 ¹ /4 x3 ³ /4 x2 ¹ /8"	1 ³ / ₄	4.02			
61 G 933	F-5U	2.5CT	10	7500	3 x2 ¹ /2 x2 ³ /8"	2	5.67			
61 G 934	F-6X	2.5CT	6	2500	1 ¹ 5/16 x3 ¹ /4 x1 ³ /4"	1	3.42			
61 G 935 61 G 936 64 G 953 64 G 954	F-7X F-8X F-13X F-14X	5CT 5CT 6.3 6.3CT	3 6 .6 1.2	1500 1500 1500 2500	115/16x3 ¹ / ₄ x2" 2 ¹ / ₄ x31 ³ / ₁₆ x2 ¹ / ₄ " 1 ³ / ₈ x2 ³ / ₈ x1 ³ / ₈ " 1 ¹¹ / ₁₆ x2 ¹³ / ₁₆ x1 ⁵ / ₈ "	1½ 1¾ 1½ ½ 3/4	3.57 4.17 2.10 2.22			
64 G 955	F-16X	6.3CT	3	2500	1 ¹⁵ / ₁₆ x3 ¹ / ₄ x2"	1½	3.33			
64 G 956	F-18A	6.3CT	6	1500	3 ¹ / ₈ x2 ⁵ / ₈ x2 ⁵ / ₈ "	2½	6.15			
64 G 957	F-21A	6.3CT	10	1500	3 ¹ / ₂ x3x3 ¹ / ₈ "	3¾	7.38			
64 G 958	F-22A	6.3CT	20	2000	3 ¹ / ₈ x3 ¹ / ₄ x3 ¹ / ₈ "	7	10.56			
64 G 959 61 G 937 64 G 974 61 G 938 64 G 935	F-25X F-26X F-40X F-41X F-23U	12.6CT 12.6CT 26.8CT 25.2CT 10CT	1.5 2.5 1 2.0 7	1500 1500 1500 1500 1500	1 ¹⁵ / ₁₆ x3 ¹ / ₄ x2" 2 ⁹ / ₃₂ x3 ¹ 1/ ₁₆ x2" 1 ¹⁵ / ₁₆ x3 ¹ / ₄ x2" 2 ⁵ / ₈ x4x2 ¹ / ₄ " 3 ¹ / ₂ x2 ¹ / ₈ x2 ¹ 5/ ₁₆ "	1½ 1½ 1½ 1¼ 2¼ 4	3.57 4.17 3.39 5.16 7.17			

DRIVER, INTERSTAGE, AND INPUT TRANSFORMERS

300-3000 cps except *30-15,000; †70-7000; \$50-10,000. †Spade-lug mtg Last letter in Type No. identifies illustration. #Ohms, except as indicated

Stock No.	Mfr's Type	Application	#Primary	Turns Ratio	Mtg. Ctrs.	Wt. Lbs	NET EACH
64 G 989 61 G 925 61 G 926	A-3X	line/SB mike to grid line/DB mike to grid line to grid	100 400 CT 500/200/ 67.5 CT		13/4" 13/4" 13/4"	1/4 1/4 1/4	2.04 2.22 2.67
61 G 927 61 G 928 61 G 929 61 G 930 64 G 934 64 G 991	A-6X A-7J‡ A-9J* A-21X	SB mike-p.p. grids speaker v.c. to grid speaker v.c. to grid line/mike to grid SBmike/plate to grid plate to s/p.p. grids	100 8/3.2 3.2 600/250/50 100 & 10,000 10,000	84:1 79:1 124:1 12:1 31.5:18.3:1 1:3	2 ³ /8" 1 ³ / ₄ " 1 ³ / ₁₆ " 3/8" 1 ³ / ₄ " 2"	1/2 1/4 1/4 1/4 1/4 1/4 1/2	2.97 2.25 5.58 10.05 2.31 2.37
61 G 920 64 G 993 61 G 921 61 G 922	A-33X† A-81X 'A-83X† A-85X§	plate to s /p.p. grids driver (30, 1H4) driver (6F6, 42, 45) driver (6F6, 42, 45) p.p. plates to grids	40 ma. in Pri 40 ma. in Pri	1:3 2.66:1, ½ sec. 1:33:1, ½ sec. 2.66:1, ½ sec. 3.1/1.8:1, ½ sc.	21 3/16" 13/4" 23/8" 21 3/16" 2x1 1/8"		3.30 2.13 2.58 3.06 7.02

Lamps—General Electric and Chicago Miniature_



ABBREVIATIONS USED TO DESCRIBE BASE AND BULB STYLE

S. C., F.—single contact, flanged base
S. C., Bay.—single contact, bayonet base
D. C., Bay—double contact, bayonet base

Cand.—Candelabra type base; G—globe bulb T—tubular bulb style; B—lemon shape bulb TL—lens end, tubular (pre-focus type) bulb

FE—flat end bulb; RP—reflector, pear shape \$—as in Fig. F; Types 1847 and 1891 are for use in Ford and Chevrolet automobiles

GENERAL-PURPOSE MINIATURE LAMPS

A wide selection of top-quality, precision-manufactured lamps commonly used in numerous applications—panel indicator, telephone, aircraft, flashlight and pilot lamps. Many are exact-duplicate lamps for replace-

flashlight	and p	ilot 1	lamps	. Man	y are exact-	duplica	ate lan	ips for	replace-
Stock	Mfr's	1	1	1.	1 1 2 2 10	Bulb		NET EA	СН
No:	Type	Fig.	Volts	Amps	Base	Style	1-9	10-99	100-Up
52 E 344 52 E 345 52 E 337 52 E 903 54 E 000	PR-2 PR-3	A	2.4	0.50	S.C., F. S.C., F.	B-3½	.20 .20 .20 .20	.13	
52 E 337	PR-4	A	3.6	0.50		B-3½ B-3½	.20	.13	.12
52 E 903	PR-6	A	1 2.47	0.30	S.C., F.	B-3½ B-3½ B-3½	.20	.13	.12
54 E 000	PR-7	A	3.7	0.30	S.C., F.	B-3½	.20	.13	
52 E 338 52 E 387 54 E 001 52 E 981 52 E 300	PR-9 PR-12	A	2.7 5.95	0.15	S.C., F.	B-3½	25	.16	.15
54 E 001	PR-13	A	1 4./5	0.50	S.C., F. S.C., F.	B-3½	.20	.13	12
52 E 981 52 E 300	12	Н.	6.3	0.15	S.C., F. Min 2-pin	B-3½ B-3½ G-3½	.25	.13	.12
52 5 300				0.30	Screw	G-3½	.17	.11	.10
52 E 301 52 E 904 52 E 303 52 E 302 52 E 385	14 24E	H	2.5 24	0.30	Screw Tel. Slide§	G-3½ T-2	.17 .65 .17 .20	.11	.10 .39 .10 .12
52 E 303	27	H	4.9	0.30	Screw	G-41/2	17	.43	.10
52 E 303 52 E 302 52 E 385	31	H	6.2	0.30	Screw	G-4½	.20	.43 .11 .13 .20	.12
52 E 305	40	В	6-8	0.15	Bayonet Screw	T-31/4 T-31/4	.30	.20	.18
52 E 306	41	В	2.5	0.50	Screw	T-31/4	:13	.10	.09
52 E 307	42	B	3.2	0.35	Screw	T-31/4 T-31/4 T-31/4	.20	.10	.12
52 E 305 52 E 306 52 E 307 52 E 308 52 E 309	44	č	2.5 3.2 2.5 6-8	0.50 0.25	Bayonet Bayonet	T-31/4	.15 .20 .15	.10	.09 .09 .12 .09
52 E 310	45	C	3.2	0.35	Bayonet	T-31/4	-15	.10	1 09
52 E 3 I 0 52 E 3 I 1 52 E 3 I 2 52 E 3 I 3 52 E 9 I 9	46	B	6-8	0.25	Screw	T-31/4 T-31/4 T-31/4	.15	.10	.09
52 E 3 I 3	47	B	6-8	0.15	Bayonet Screw	T-31/4	.15	.10	.09
52 E 9 1 9	48C	P	48	.035	Tel. Slide§	T-2	.15 .15 .15 .15	.46	.09 .09 .09 .42
52 E 314 52 E 315 52 E 316 52 E 369 52 E 320	49	C	2.0	0.06	Bayonet	T-31/4	.15	.10	
52 E 3 4 52 E 3 5 52 E 3 6	50 51	H	6-8 6-8	1 c.p.	Screw Bayonet	G-3½	.15	.10	00
52 E 316 52 E 369 52 E 320	53	J	14.4	1 c.p. 0.12	Bayonet	G-3½ G-3½	:15	.10	.09
52 E 320	55	J	6-8	2 c.p.	Baoynet	G-4½	.15	.!0	
52 E 660 52 E 322 54 E 002 54 E 003	57 63	1	12 6-8	2 c.p. 3 c.p.	Bayonet	G-4½ G-6	.15 .20 .50	.10 .13 .31 .13	.09 .12 .26
54 E 002	63L	j	6-8	0.80	S.C. Bay. S.C. Bay.	G-6	.50	.13	.12
52 E 322 54 E 002 54 E 003 52 E 061	67 67K	J	12	4 c.p.	S.C. Bay.	G-6	.20	.13	.12
	81	<u>"</u>	13.5	4 c.p.	Cand.	G-6	.40	.26	.24
52 E 321 52 E 317 54 E 004	82	F	6-8	6 c.p.	S.C. Bay. D.C. Bay.	G-6 G-6	.25	.16	.15
54 E 004	88	F	6	6 c.p.	D.C. Bay. D.C. Bay.	S-8	.35	.23	-61
52 E 325 52 E 327	112 136	D	1.2 1.3	0.22	Screw Screw	TL-3 G-41/2	.25 .25 .35 .17	:11	•10
54 F 006	158		12	0.24	Wedge	T-31/4	20		
54 E 007 52 E 330 52 E 331 52 E 333	159		6.3	0.15	Wedge	T-31/4	.20	.12	.12
52 E 331	222	D	2.2	0.25 0.25	Screw Screw	TL-3 FE-334	17		
52 E 333	224	E	2.2 2.15	0.22	Special	TL-23/4	.20 .20 .17 .17	.!3	.10
52 E 334 52 E 339 54 E 008 52 E 319 52 E 323	233 248	H	2.3	0.27	Screw	G-3½	.17 .25 .60 .35		.10 .15 .27
54 E 008	305	F	28	0.51	Screw S.C. Bay.	G-5½ S-8	.60	.16 .37 .23 .59	.15
54 E 008 52 E 319 52 E 323	313	CK	28	0.17	Bayonet	T-31/4	.35	.23	.21
52 E 377	328	K	<u>28</u> 6	0.04	S.C. Mid.*	T-13/4 T-13/4	90	.59	•>>
52 E 377 52 E 378 52 E 658 52 E 332 52 E 652	425	H	5	0.50	Screw	G-41/6	.70 .17 .17	.46	.42
52 E 658 52 E 332	428 432	H	12.5 18.0	0.25 0.25	Screw	G-4½ G-4½	.17		.10
52 E 377 52 E 378 52 E 658 52 E 332 52 E 652	433	j	18	0.25	Screw Bayonet	G-4½	.25	.13	.10
52 E 342	605	H	6.1	0.50	Screw	G-4½	.17		.10
52 E 664 54 E 009	1129 1130	F	6-8 6	21 c.p. 2.63	S.C. Bay.	S-8 S-8	.17	.23	.21
54 E 009 52 E 650 54 E 010	1133	G	6-8	32 c.p. 1.34	D.C. Bay. S.C. Bay.	RP-11	.40	26 1	.24
54 E 010	1142	F	12	1.34	D.C. Bay.	S-8	.35	.23	.24
52 E 651 52 E 379	1188 1323	G	6-8 6.2	50-32c.r 4.13	S.C. Pref. †	RP-11 RP-11	1.20	.79	.73
54 F O I I	1445	J. H	18	0.15	Bay.	G-3½ G-3½	.20	.13	.12
52 E 659 52 E 341	1446 1447	H	12 18.0	0.20	Screw Screw	G-3½ G-3½	.25	.13	.61 .12 .15
52 E 661	1449	H	14	0.20	Screw	G-3½	1.00 .20 .25 .20 .15 .20 .50 .20	.13	.12
52 E 662	1458	3	20.	0.25	Bayonet	G-3½ G-5 T-3	.20	.13	.12
52 E 662 52 E 653 52 E 654 52 E 655	1477 1487	B	24 12-16	0.17	Screw .	T-3 T-31/4	.50	.33	.30
52 E 655	1488	C	14	0.15	Bayonet	T-31/4	.25	.10	.09 .12 .30 .12
52 E 340	1490 1493	C	3.2 6.5	0.16	Bayonet	T-31/4	1.05	-11	.10
22 2 0 3 0 1	2700	-	0.0	2.75	D.C. Bay.	S-8	1.05	.69	.64

GENERAL-PURPOSE MINIATURE LAMPS (Cont'd)

ment use. All are miniature lamps, except: *midget flanged type; †prefocused candelabra. Those indicated \$ have switchboard slide-type base. Av. shpg. wt., 1 lamp, 2 oz.; box of 10, 4 oz.

Stock	Mfr's	E: ~	Volts	Amma	Door	Bulb		NET EA	CH :
No.	Туре	Fig.	VOILS	Amps	Base	Style	1-9	10-99	100-Up
54 E 012	1618	F		21 c.p.		S-8	.70	.43	.32
54 E 013	1648	F	8	21 c.p.		S-8	.70	.43	.32
52 E 399	1651	F	5	0.60	S.C. Bay.	S-8	.60	.39	.36
52 E 924	1699	G	6	5.7	S.C. Bay.	RP-11	.70	.46	.42
52 E 326	1768	В	6	0.20	Mid. Screw	T-13/4	.90	.59	55
52 E 925	1813	C	14.4	0.10	Bayonet	T-31/4	.25	.16	.15
52 E 657	1815	C	12-16	0.20	Bayonet	T-31/4	.20	.13	.12
54 E 014	1819	C	28	0.035	Bay.	T-31/4	.45	.28	.20
52 E 324	1820	C,	28	0.10	Bayonet	T-31/4	.40	.26	.24
52 E 343	1829	C '	28.0	0.07	Bayonet	T-31/4	.35	.23	.21
52 E 982	1847	C:	6.3	0.15	Bayonet	T-31/4	.20	.13	.12
54 E 015	1850	C	5	0.09	Bayonet	T-31/4	.25	15	.13
54 E 016	1881	C	12	0.24	Bayonet	T-31/4	.17	TiT 1	.iō
52 E 983	1891	C	12.0	0.24	Bayonet	T-31/4	.17	iii l	.io

NEON GLOW LAMPS

For 105-600 v. except \$210-600 v. \$DC only. Sk. under Base means skirted. Screw types have series resistor in base—for 105-125 v.; others require external resistor. *AC starting voltage. DC starting v., 40% higher. †High brightness. Av. shpg. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

Stock No.	Mfr's Type	Fig.	Watts	*AC Volts	Bulb Style	Base	NET 1-49	EACH 50-Up
54 E 017 54 E 018 52 E 370 52 E 926 54 E 019	A1B †A1C NE-2 NE-2D NE-2E	BB BB M L	1/17 1/17 1/17 1/15 1/10	65 95 65 65 65	T-2 T-2 T-2 T-2 T-2 T-2	Wire Term. Wire Term. Wire Term. S.C. Mid. Flange Wire Term.	.14	.11
52 E 396 52 E 929 52 E 374 52 E 826 52 E 827	†NE-2H †NE-2J NE-7 NE-16 NE-17	M L R T	1/5 1/5 1/4 1/4 1/4	105 55 §67 55	T-2 T-2 T-4½ T-4½ T-4½	Wire Term. S.C. Mid. Flange Wire Term. D.C. Bay. Cand. D.C. Bay. Cand.	.12 .82 .73 .63	.10 .66 .58 .50
52 E 822 52 E 801 52 E 814 52 E 803 52 E 806	NE-21 NE-30 NE-32 NE-34 NE-40	W X Y Z Z	1 2 3	55 60 60 60	T-4½ G-10 G-10 S-14 S-14	S.C. Bay. Cand. Edison D.C. Bay. Cand. Edison	.95 1.20 1.20 1.85 2.70	.76 .96 .96 1.48 2.16
52 E 816 52 E 807 52 E 812 52 E 373 52 E 395	NE-42 NE-45 NE-48 NE-51 †NE-51H	AA S T N	3 1/4 1/4 1/25 1/7	60 65 65 65	S-14 T-4½ T-4½ T-3¼ T-3¼	Sk.D.C.Bay.Cand. Cand. Screw D.C. Bay. Cand. S.C. Bay. Min. S.C. Bay. Min.	2.65 .85 .70 .21	2.12 .68 .56 .17
52 E 360 52 E 361 52 E 362 52 E 397 52 E 060	‡ NE-56 NE-57 ‡ NE-58 NE-77 NE-96	S S M M	1 1/4 1/2 3/4 1/4:	60 55 65 140 140	S-11 T-4½ T-4½ T-2 T-2	Edison Cand. Screw Cand. Screw 3-Wire Term. 2-Wire Term.	1.25 .99 .95 .55	1.00 .79 .76 .44

ARGON GLOW LAMPS

Pale blue-violet light—near-ultraviolet radiation. Clear glass. *Av. life, 1000 hours; tav. life, 3000 hrs. Av. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

Stock No.	Type	Fig.	Watts	Volts	Bulb	Base	1-49. EA.	50-Up EA.
52 E 8 1	*AR-3 †AR-1	SZ	2 2	80 65	T-4½ S-14	Cand. Screw Edison	.85 1.90	.68

AC-DC LAMPS

Rated 1500 hours, average use. Clear glass except swhite glass. Ideal behind small panel openings, as indicator lamps, etc. For 120 volts, except *230 v. ‡Herzog tubular lamp—others, G.E. Av. shpg. wt., 4 oz.

Stock No.	The second secon	Fig.	Watts	Base	1-49, EA.	50-Up, EA
52 E 354	6S6DC	CC	6	Cand. Screw D.C. Bay. Cand. Cand. Screw Cand. Screw	.22 .33 .39	.18 .26 .31
	\$ 7C7W 10C7DC		10	Cand. Screw Cand. Screw D.C. Bay. Cand. Cand. Screw	.22 .22 .29 .54	.18 .18 .23 .49

Dialco Indicator Lights—Sockets



HALF INCH ASSEMBLIES

A Series 81410X, Enclosed. Rugged, aviation-type socket shell with smooth jewel in ½" holder. Takes T-3½ miniature bayonet lamp. Size, 2½" long; requires ½" mounting hole. Fits panels up to ¾" thick. Black nickel finish. U.L. Approved. Less T-3½ miniature lamp; see bulb listings. Av. shpg. wt., 3 oz.

Stock No.	Mfr's	Cap	1-9,	10-Up,
	Type	Color	EACH	EACH
52 E 530 52 E 531 52 E 532 52 E 533		Red Green White Amber	1.19	1.07

Replacement Jewel Caps for Above, Wt. 2 oz.

Stock	Mfr's	Jewel	1-9,	10-Up,
No.	Type	Color	EACH	EACH
52 E 535 52 E 536 52 E 537 52 E 538	81-112 81-135	Red Green White Amber	.16	.14

B Series 857B, Open. Requires an 1½6" mtg. hole. ½" lens. 2" long. Tinned solder terminals. For panels up to ½" thick. With mounting washer. Less lamp. Uses Type 44, 47 or 51 bulbs; see bulb listings. Shpg. wt., 4 oz.

Stock	Mfr's	Cap	1-9,	10-Up,
No.	Type		EACH	EACH
52 E 545 52 E 546 52 E 547 52 E 548	433	Red Green Amber Blue	.44	.40

NEON LIGHTS AND ASSEMBLIES



Series 95408X and Series 95408XH, Indicator Lights. Enclosed indicator lights. Series 95408X have built-in 56,000-ohm, ½-watt resistor for NE-51 neon lamps in 105-125 v. AC-DC circuits. Series 95408XH (*) have built-in resistor of 18,000 ohms for use with NE-51H neon glow lamp on 110-125 v. AC. 2½% long, ½% hole. Meet MIL-L-3661 and U.L. requirements. Less lamp. With mounting nut. Av. shpg. wt., 3 oz.

Stock	Mfr's	Stock	Mfr's	Cap
No.	Type	No.	Type	
52 E 504	931	53 E 142	935H*	Red
52 E 505	933	53 E 143		Amber
52 E 506	935	53 E 144		White
52 E 507	937	53 E 145		Clear

10-Up, EACH......1.07

D Series 952208, Panel Assemblies. Enclosed neon pilot light assemblies. Have built-in 56,000 ohm resistor for NE-51 in 105-125 v. AC-DC circuits; except * with 18,000 ohm resistor for NE-51H "high-brightness" lamp for use with 105-125 v. AC. 2½6" long, 1½6" mag, hole. Less lamp (see bulb listings). With mounting nut. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type		Mfr's Type	
52 E 581 52 E 582 52 E 583 52 E 584	931 933 935 937	53 E 46 53 E 47 53 E 48 53 E 49	933H* 935H*	Amber White

10-Up, EA.....61 1-9, NET EA.....68

Replacement Plastic Caps For Above. 2 oz.

Stock	Mfr's	Color	1-9,	10-Up,
No.	Type		EACH	EACH
52 E 567	95-931 95-933 95-935 95-937	Red Amber White Clear	.19	.17

PILOT BULB REMOVER











ONE INCH PILOT LAMP ASSEMBLIES

E Series 313101, Enclosed. 115-volt, enclosed pilot lamp assembly. Black bakelite and brass. Has faceted jewel in chrome-plated holder. Candelabra screw socket. 1" mounting hole. *Not recommended for neon; all others for neon or incandescent. For Type S6 bulbs, U.L. Approved. Shpg. wt., 4 oz.

Stock	Mfr's	Jewel	1-9,	10-Up,
No.	Type	Color	EACH	EACH
52 E 460 52 E 461 52 E 462 52 E 510 52 E 511 52 E 512	431 432 433 437 434 435	Red Green* Amber Clear Blue* White	1.22	1.10

F Series 312901, with Wire Leads. As above, except with 6" wire leads instead of solder lugs. Has friction-fit, chrome-plated cap. 1" mtg. hole. U.L. Approved. Less S6 candelabra lamp (see bulb listings). Shpg. wt., 4 oz.

52 E 485 52 E 486 52 E 487	111 112 113	Red Green Amber	1.52	1.37
52 E 407	117	Clear	1.02	1.07

Series 75, Open. 115-volt open-type pilot lamp assembly with faceted jewel in chrome-plated brass holder. Candelabra screw socket. Solid brass construction. Friction-fit chrome-plated cap. 1" mounting hole. Less S6 lamp (see bulb listings). Shpg. wt., 5 oz.

Stock	Mfr's	Jewel	1-9,	10-Up,
No.	Type	Color	EACH	EACH
52 E 500 52 E 501 52 E 502		Red Green Amber	.70	.63

Replacement Jewel Caps for Series 312901 Indicator Assemblies. 2 oz.

Stock No.	Type	Color	Stock No.	Type	Color
52 E 575	31-111	Red	52 E 576	31-113	Amber
52 E 596	31-112	Green	52 E 578	31-117	Clear
1-9, EACI	4	42	10-Up, E	EACH.	38

Replacement Jewel Caps for Series 75, 910, and 313101 Assemblies. 2 oz.

52 E 525	31-431	Red	52	E	527	31-433 Amber
52 E 526	31-432	Green	52		588	31-437 Clear
1-9, EAC	H	42	- 10	0-	Up,	EACH38

MINIATURE AND CANDELABRA SCREW OPEN TYPE ASSEMBLIES

Widely used open-type light assemblies for low voltage incandescent lamps. Supplied complete with jewel holder and easily soldered terminal lug connections. Available with either miniature screw base, or miniature bayonet-type base. Accommodate T-31/4 lamps, G6 lamps, and S6 lamps.



Series		NET		
No.	Red.	Green	Amber	EACH
510	52 E 475	52 E 476 52 E 541	52 E 477 52 E 542	.21
710	52 E 480	52 E 481	52 E 482	

M Series 910 Miniature Bayonet Type. Open assemblies with chrome-plated brass jewel holders and faceted jewels. 1½" long; require 1" mounting hole. Take T-314 bayonet-base bulb. Less bulb. Shpg. wt., 3 oz.

Stock No.	Color	1-9, EACH	10-Up, EACH
52 E 420 52 E 421 52 E 422	Red Green Amber	.71	.64

Series 810. Screw and Bayonet Types. With faceted jewel. Require 11/6" mounting hole. With solder lug terminals. Use miniature bulbs. 810M takes T-31/4 miniature bulb with screw base; 810B uses T-31/4 miniature buyonet-base bulb. Less lamp; see bulb listings. Av. shpg. wt., 2 oz.

Series		Stock No.					
No.		Green					
810M 810B	52 E 450 52 E 453	52 E 451 52 E 454	52 E 452 52 E 455	.32			

Series 910 Screw Types. Open miniature and candelabra screw types. Chrome-plated brass jewel holders and faceted jewels. 1½ long; require 1" mounting hole. Miniature screw types take T-3¼ bulb. Candelabra screw types use S6 bulb. Less bulb. Shpg. wt., 3 oz.

Color	Min.	Cand.	1-9,	10-Up,
	Screw	Screw	EACH	EACH
Green	52 E 431	52 E 440 52 E 441 52 E 442	./	.64

PILOT LIGHT SOCKETS

Popular open-type pilot light sockets in a variety of mountings for most standard applications. All have terminal lugs of tinned brass to facilitate rapid soldering. Cadmium plating is used on brackets. Bayonet type sockets have coil spring construction.

All sockets are supplied with insulating washers. *Indicates as illustrated, but has bayonet-type base. See bulb listing of screw lamps (for Series 500 sockets), candelabra lamps (for Series 600 sockets), and bayonet lamps (for Series 700 sockets). Av. shpg. wt. per pkg. of 5, 6 oz. 5 per package.

MINIATURE SCREW

Stock No.	Mfr's Type	Fig.	Per 5	Per Pkg.
52 E 400 52 E 401 52 E 402 52 E 410 52 E 411	507	NSPT	.35	.31 .29 .31

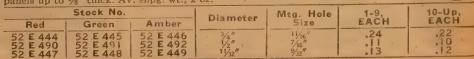


MINIATURE BAYONET

52 E 404 701 | N* | .39 | .35
52 E 405 707 | S* | .32 | .28
52 E 403 704 | P* | .39 | .35
52 E 406 705 | T* | .39 | .35
52 E 407 708 | R* | .39 | .35
52 E 419 708 | R* | .39 | .35

PILOT LIGHT LENS CAPS

All-purpose faceted lens caps for most commonly used pilot lights. Available in three sizes—¾, ½, ½, and ½, diameters. Available in red, green and amber jewel color. Holders are constructed of nickel-plated brass. Designed for panel mounting in panels up to ¾, thick. Av. shpg. wt., 2 oz.



Lamp Sockets, Bulbs, Buss Fuses and Accessories_

LAMP SOCKETS, REDUCERS **TUNGAR AND NEON BULBS**

SOCKETS/REDUCERS FOR NEON, ARGON, PILOT LAMPS



Reducer fits into socket to convert to most commonly used types of bulb bases. *Socket with hard rubber insert in metal shell. Av. shpg. wt. for sockets, 3 oz. Av. shpg. wt. of reducers, 2 oz.

Stock No.	Fig.	Description	1-49, EA.	50-IIn EA
52 E 850 52 E 858 52 E 852 52 E 855	A B	Edison socket Miniature screw socket Candelabra screw socket Candelabra screw socket	.13 .15 .45	.12 .13 .41
52 E 853 52 E 856 52 E 857	D	D.C. bay. candelabra socket D.C. bay. candelabra socket S.C. bay. candelabra socket	.36 .87 .81	.33 .79 .72
52 E 639 52 E 634 52 E 638	E F G	Edison-to-Cand. reducer Candelabra-to-Min. reducer Intermediate-to-Cand. reducer Edison-to-Inter. reducer	.21 .18 .09	.18

G.E. TUNGAR BULBS





Argon and argon-mercury filled tungar bulbs for use in the rectification of current from AC to DC. Used in battery chargers, DC power supplies, motion picture projectors, also for operaused in motion picture projectors. Av. shpg. wt., 1/4 lbs.

Stock No. Type Fig. Argon NETICAL.

Stock No.	lype	Fig.	Amps	NET	Stock No.	Туре	Fig.	Amps	NET
9 E 900 1 9 E 901 2 9 E 906 2 9 E 903 1	06501 0X 672	J	2 2 5	4.80 4.65 5.78	9 E 904 9 E 905 9 E 907 9 E 908	189049 217283* 16X897	H	6 15	4.88 9.38 13.05 15.30

DRAKE NEON INDICATING LIGHTS



Type 110 "Flushlite". Neon indicating light, enclosed in translucent plastic base. For 110-125 volts, AC or DC. Size, ½x1½x½". Has 1½" mounting centers. Shpg. wt., 2 oz. 78 E 061. 10-Up.... EACH .42 1-9. EACH .45



Type 105 "Post-lite". Panel light for 65-130 v., AC, or 90-130 v., DC. Length, 21/4". Requires 1/2" mtg. hole. With mtg. nut. Wt., 2 oz. 78 E 062, 10-Up. EACH .59 1-9. EACH .62

BUSS HOUSEHOLD PLUG FUSES



All are 125 v. max. Type T dual-element fuses are protected against "blowing" during motor starting. Shpg. wt. per pkg., 5 oz. 4 fuses per pkg. Type W are Edison base house fuses. Shpg. wt. per pkg., 6 oz. 5 fuses per pkg. Type S are time-delay; cannot be replaced with higher values without changing adapter. Shpg. wt. per pkg., 2 oz. 4 fuses per pkg.

FUSETRON TYPE T DUAL-ELEMENT FUSES

Amne Sto		Stock	PERP	(G. OF 4		Stock	PER P	KG. OF 4
	Amps	No.	1-19	20-Up	Amps	No.	1-19	20-Up
	15 20	53 B 521 53 B 522	.30	.28	25 30	53 B 523 53 B 524	.30	.28

TYPE W PLUG FUSES

Amps	Stock	PERP	KG. OF 5	Δ	Stock	PERP	KG. OF 5
Miliha	No.		20-Up	Amps	No.	1-19	20-Up
3	53 B 560 53 B 563	32	20	15 20	53 B 565	20	24
10	53 B 564	.52	.29	30	53 B 568	.29	.40

TYPE S FUSTAT FUSES

Amps	Stock No.	Body Color	Amps	Stock No.	Body Color				
20		Orange	30	42 B 902 42 B 903	Green				
NET PER PACKAGE OF 4									

"MINI-BREAKER" CIRCUIT MINDERS



Precision circuit protectors that provide circuit breaker action; open overloaded circuits; reset with pushbutton. Fit Edison base sockets. U.L. Approved. For 120 v. AC. Shpg. wt., 3 oz.

Stock No.	Amperes	EACH
52 B 176	15	00
52 B 177	20	.89
22 B 1/8	1 30	

BUSS FUSES AND ACCESSORIES



TYPE MDL FUSETRON FUSES

Long time-lag prevents needless blows from starting currents or surges. Operates instantly on high overloads or shorts. Thermal cutout operates slowly on low overloads. Size, $1/4x/4^{\prime\prime}$. U.L. Approved. Shpg. wt., per pkg., 2 oz. 5 fuses per package.

Amps	Max.	Stock No.		OF 5		Max.			OF 5
					Amps	Volts	No.	1-19	20-Up
1/100 1/32 1/16 1/10	250 250 250	53 B 441 53 B 442 53 B 443 53 B 444	1.13	1.00		250 250	53 B 453 53 B 454 53 B 455 53 B 456	.82	./0
15/100 2/10 1/4 3/10	250 250	53 B 450 53 B 451 53 B 407 53 B 452	.82	.70	1 2-8/10 4 5	125 32	53 B 461 53 B 466 53 B 468 53 B 469	.62	.70 .55 .55

TYPE MDX 125-VOLT FUSETRON FUSES

Have same thermal delay action as Type MDL above, but open in approximately half the time, ½ second. 1¼x¼". U.L. Approved. Shpg. wt. per pkg., 2 oz.; per 100, 15 oz. 5 fuses per package.

Amps		PER PKG. OF 5			Stock	PER PKG. OF 5		
	No.	1-19	20-Up	Amps	No.	1-19	20-Up	
4	53 B 408 53 B 503 53 B 504	.62	.55	61/4	53 B 505 53 B 506	.69	.60	

32-VOLT FUSES

For circuits operating at 32 volts or less. 11/4x1/4". U.L. Approved. Shpg. wt., 1 oz. per pkg. 5 fuses per package.

7½ AGC 53 B 436 .16 .14 30 AGC 53 B 440 :19 :16



SP-1 STAK-PAK FUSE ASSORTMENTS

- Neat, Convenient Way to Carry Fuses
- Compact Design; Sturdy Metal Construction

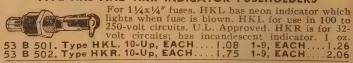
FUSETRON TYPE FNM LONG TIME LAG FUSES



Dual-element type. Fuse link operates only on high overloads or short-circuits; thermal cutout on low overloads. Thermal cutout cannot operate quickly on any load—provides long time lag. 13/2x11/2". 250 volt max., except *125 volts. U.L. Appr'd. 5 oz. 10 fuses per pkg.

Amps	Stock	1-9 10-Up		Amne	Stock	PERPKG. OF 10		
Amp	No.			Amps	No.	1-9	10-Up	
1 2½ 4 5	53 B 485 53 B 489 53 B 491 53 B 492	2.44	2.07	61/4 8 10 15*	53 B 493 53 B 494 53 B 495 53 B 496	2.44	2.07	

TYPE HKL AND HKR INDICATOR FUSEHOLDERS



BUSS AND G-C FUSE MOUNTINGS







For radio, TV, autos, etc. All are Buss, except *G-C. Fuse projects beyond holder; always easy to remove. †Screw terminals. Av. wt., 1 oz.

Stock No.	Type	For Fuses	NET	Stock No.	Туре	For Fuses	NET
53 B 500	HPC HCM HKP	1 ³ / ₃₂ ×1 ¹ / ₂ " ⁹ / ₃₂ ×1 ¹ / ₄ " ¹ / ₄ ×1 ¹ / ₄ "	.44	53 B 480	4405 4408 1749*	1 ½x½" Double 4405 2½x¾"	.13

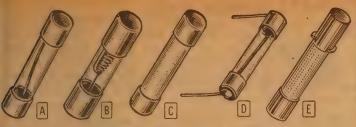
G-C "SPEEDEX" FUSE PULLERS



Permits quick removal of cartridge-type fuses. Has non-slip construction. Laminated insulation of high dielectric material prevents shock from dangerous high voltages.

Stock No. Mir's Type	For Fuse Diameters	Shpg. Wt.	NET EACH
45 N 836 5525 45 N 837 5526	1/4" to 1/2"	6 oz.	.59
43 11 837 3320	1/2" to 11/2"	7 oz.	1.27

Littelfuse Fuses and Mountings



TYPE 3AG STANDARD FUSES

Series 312000. Dependable, quick-acting fuses for short time-lag uses. High operating temperatures do not affect fuse characteristics. Size: 11/4" long x 1/4" dia. Pkg. wt., 2 oz. 5 fuses per package.

Amps	Max. Volts	Stock No.	Per Pkg.	or more, Per Pkg.		Max. Volts	Stock /	Per Pkg.	or more, Per Pkg.
1/16 1/8 15/100	250 250 250	52 B 242 52 B 230 52 B 67 I	.62	.53	3/4	250 250 250	52 B 233 52 B 234 52 B 235		.35
3/16	250	52 B 672 52 B 161		;	3	250 250 250	52 B 236 52 B 237 52 B 238	.25	.21
1/4 3/10 3/8 1/2	250 250 250 250	52 B 23 I 52 B 673 52 B 243 52 B 232	.41	.35	5 6 8	250 250	52 B 239 52 B 240 52 B 248	.31	.26 .26 .38

TYPE 3AG SLO-BLO FUSES

Series 313000. Slo-Blo fuses with high time-lag to stand heavy surges. Designed for circuits having high inductive or capacitive ges. Also for circuits having heavy starting currents, such as motors i lamps. Units through 5 amps are U.L. Approved. Size: 1¼" long 1½" diameter. Shpg. wt., per pkg. 2 oz. 5 fuses per package.

1/100 1/32 1/16 1/10 1/8	125 125 125 125 125 125	52 B 185 52 B 186 52 B 187 52 B 252 52 B 188	1.15 1.15 .82 .82	.98 .98 .70 .70	1 1½ 1½ 1.6 2	125 125 125 125 125 125	52 B 220 52 B 253 52 B 198 52 B 254 52 B 179	.82 .76 .76 .76	.70 .65 .65 .65
15/100 .175 3/16 2/10 1/4	125 125 125 125 125 125	52B 189 52B 675 52B 190 52B 191 52B 921	.82	.70	2½ 3 3.2 4 5	125 125 125 125 125 125	52 B 257 52 B 181 52 B 182 52 B 227 52 B 223	.62	.53
3/10 3/8 1/2	125 125 125	52 B 192 52 B 193 52 B 923	.82	.70	61/4 8 10	32 32 32	52B 183 52B 184 52B 226	.62	.53
6/10 3/4 8/10	125 125 125	52 B 195 52 B 196 52 B 197	82	.70	15 20 30	32 32 32	52 B 224 52 B 225 52 B 677	.62	.53

TYPE 3AB FUSES

Series 314000. Steatite, powder-filled; for high-current use. Medium time lag 11/2/1/2 Types thru 15 amps U.L. Appy'd, 2 oz. 5 per pkg.

TILC TOP	. ~ /4 ~ /4	a peo can e	a no warnp			
250 250 250	52 B 678 52 B 679 52 B 680 52 B 681 52 B 241	.53	45 12 45 15 43 20	250 52	.53 .53	.43 .45 .45 .45

TYPE 4AG SLO-BLO FUSES

Series 413000. Meet aircraft requirements. Open in 1 hr. on 135% overload; max. 60 sec., min. 5 sec. on 200%; imm. on shorts. 11/4x

2/10 1/4 3/10 1/2	250 250	52 B 994 52 B 985 52 B 995 52 B 986	1.09	.93	3 3 ² /19 5 6 ¹ / ₄	250 32	52 B 989 52 B 947 52 B 990 52 B 949	.82	.70
6/10 3/4 1 11/4	250 250	52 B 997 52 B 683 52 B 987 52 B 999	1.09	.93	8 10 15 20		52 B 960 52 B 991 52 B 961 52 B 962	.82	.70
1-6/10 2	250 250	52 B 945 52 B 988	1.09	.93	25 30	32 32	52 B 963 52 B 964	.82	.70

TYPE 8AG FUSES

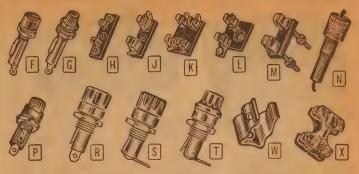
Series 361000 Fast Action Instrument Fuse. All rated 250 max. volts, except * which is 32. 1x1/4". 2 oz. per pkg. 5 fuses per pkg.

1/500 1/200 1/100 1/32	8 16	52 B 199 52 B 200 52 B 201 52 B 202	1.71		1/2 3/4 1 1½	800 1300	52 B 208 52 B 209 52 B 210 52 B 212	.38	.33 .25 .25
1/16 1/8 1/4 3/8	155 270	52 B 203 52 B 205 52 B 206 52 B 207	.62	.33	2 3 5*	2000	52 B 211 52 B 213 52 B 214	.29	.25

LIMITED-CURRENT BAYONET FUSES

TV fuses for 346000 series bayonet-lock fuse holders only. Series 333000 are, Slo-Blo; 332000 are regular. Wt., 2 oz. 5 fuses per pkg.

	333000 Series (Slc-Blo N Type)						332000 Series (Regular C Type)					
.25 .3 .4 .5	125 125 125 125	52 B 52 B 52 B 52 B	730	.87	.74	.25 .3 .375 .5	250 250 250 250 250	52 B 52 B 52 B 52 B	168 733	.50	.43	
.6 .7 .75 1.0	125 125 125 125	52 B 52 B 52 B	055 731		.74	.75 1.0 1.5 2.0	250 250 250 250 250	52 B 52 B 52 B 52 B	734 736		.43 .24 .24 .24	
1.25 1.6 2.0	125 125 125	52 B 52 B 52 B			.68	7.0	250 . 125	52 B 52 B	163 052	.28	.24	



FUSE MOUNTINGS, RETAINERS, POSTS

Fuse holders for every application. *With fuse. Av. shpg. wt., 3 oz.										
Stock No.	Mfr's Fig	For Fuses	Description	NET EACH						
4! B 720 4! B 721 4! B 729 4! B 727 4! B 728	341001 F 371001 F 442001 G 342001 G 372001 G	3AG, 3AB 8AG 4AG 3AG, 3AB 8AG	Screw slot Screw slot Thumb knob Thumb knob Thumb knob	.41 .82 .41						
52 B 292 52 B 285 52 B 294 40 B 450 52 B 296	357001 H 387001 H 356001 H 350218 J 387002 K	3AG, 3AB 8AG 3AG, 3AB 3AG, 3AB 2-8AG	Lug term. Lug term. Screw term. Single fuse mounting Double fuse mounting	.13 .27 .17						
52 B 297 52 B 295 52 B 291	357002 K 383002 L 353001 M	2-3AG or 3AB 8AG 3AG, 3AB	Double fuse mounting "Meter-back" mounting Panel type mounting	.25 .21 .35						
41 B 788 41 B 798 41 B 789 41 B 795	155009 N 155014 N 155020 N 342012 P	*SFE, (9 a.) *SFE, (14 a.) *SFE, (20 a.) 3AG	Inline fuse retainer Inline fuse retainer Inline fuse retainer Extractor post	.31						
52 B 262 52 B 263 52 B 264	342014 R 342004 S 342022 T	3AG 3AG 3AG	Miniature fuse post Miniature fuse post Miniature fuse post	.30 .35 .35						

52 B 685, Fig. W. Type 101001 Fuse Clips. Fit SFE, 3AG, 8AG and 3AB fuses. Shpg. wt. per package, 3 oz. 10 clips per package.

FUSEMASTER RACK ASSORTMENT

• Includes 20 Boxes—100 Most Popular Fuses

Type 094047. 100 assorted fuses in a clear plastic rack. Ideal for service shops; inventory control backboard permits taking fuse inventory at a glance. Includes 3AG types: 10—¼-amp, 10—½-amp, 5—1-amp, 5—2-amp, 5—5-amp, 10—¼-amp SB, 5—½-amp SB, 5—1-amp SB, 5—2-amp SB, 5—3-amp SB, 10—5-amp SB, slaso "N" types: 5—3/10-amp, 5—4/10-amp, 5—½-amp; and "C" type: 10—3/10-amp. 11x7¾x2". 2 lbs.

1.93 52 B 943. NET...



SERVICEMEN'S FUSE CADDIES

Type 094041. Designed to fit in tube caddy. Contains 15 boxes (5 fuses per box) of Types C and N limited-current fuses marked by * in table below. Rated 250 v., except 7 amp, 125 v. Clear plastic case has 3 spare compartments. Size, 11/8x3x41/4". Shpg. wt., 2 lbs.

NET 10.58

Туре	Amps	Туре	Amps	Туре	Amps
C (Regular) C (Regular) C (Regular) C (Regular) C (Regular) C (Regular)	.3* .5* .75* 2* 2.5*†	N (Slo-Blo) N (Slo-Blo) N (Slo-Blo) N (Slo-Blo) N (Slo-Blo)	.6* .7* 1*† 1.25*† 1.6*	3AG 3AG 3AG 3AG (Slo-Blo) 3AG (Slo-Blo)	2.0† 3.0† 5.0† .25† .5†
C (Regular) N (Slo-Blo) N (Slo-Blo) N (Slo-Blo)	7* .25*† .3* .5*	N (Slo-Blo) 3AG 3AG 3AG 3AG	2* .25† .5† 1†	8AG-U.L. 8AG-U.L.	.25†

TYPE 3AG PIGTAIL FUSES

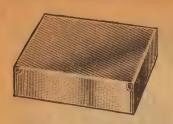
Series 318000. Fast-acting type, All have 11/2" tinned copper leads

[1] Size, 1 /4x /4"	. Supg. wt. p	er pkg., 2 02.	o luses bei	Jackage.
Stock No.	Amps	Volts	Per Pkg.	20 Pkgs. or more, Per Pkg.
52 B 215 52 B 279	1/4 1/2	250 250 250	.62 .62	.53 .53

TYPE SFE 32-VOLT AUTO FUSES

Series 307000. Medium-acting fuses. Sizes specified by S.A.E. Specially grooved element strengthens fuses against vibrations U.L. Approved. Max. volts, 32. 1/4"dia. 2 oz. per pkg. 5 fuses per pkg.

Amps	Stock No.	Length	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Stock No.	Length	Per Pkg.	or more, Per Pkg.
4 6 7½ 9	52 B 250 52 B 255 52 B 274 52 B 260	5/8 " 3/4 " 7/8 " 7/8 "	.17	.14	14 20 30	52 B 265 52 B 270 52 B 275	1 1/16" 1 1/4" 1 1/16"	.14	:15





STANDARD CHASSIS BASES

Have one-piece construction; corners are reinforced and spot-welded. The four sides are folded at the bottom for additional strength. Aluminum types are spot-welded. Steel chassis gauges: *No. 22; †No. 20; §No. 18. Aluminum chassis gauges (aluminum gauge): ‡No. 18; **No. 16; ††No. 14. Less bottom plates. AC-403: 2x9½x5.

Allied stocks the complete Bud line of metal goods. Even if the Bud equipment you require is not listed, Allied can fill your order quickly.

H.W.D.		ck-Wrinkle	Steel		Zinc-Plated Steel				Aluminum			
Inches	Stock No.	Туре	L.bs.	NET	Stock No.	Туре	Lbs.	NET	Stock No.	- Туре	Lbs.	NET
2x6x4 2x7x5 2¼x9¼x5 1½x9½x5 3x6x4	80 P 456 80 P 457 80 P 458	CB-628* CB-644* CB-788*	1 1¼ 1	1.05 1.34 1.18	86 P 277 86 P 905 86 P 906	CB-629* CB-645* CB-776*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.27 1.64 1.66	86 P 930 86 P 112 86 P 113	AC-431‡ AC-402‡ AC-403‡	1/2 1/2 1/2 1/2	1.08 1.15 1.22
3x7x5 3x9½x5 3x10x5 3x13x5	80 P 459	CB-604*	11/4	1.24	86 P 271	CB-605*	11/4	1.80	86 P 933 86 P 114 86 P 127 86 P 934	AC-430; AC-429** AC-421; AC-404; AC-422;	3/4 3/4 3/4 3/4	1.39
3x14x6	80 P 460	CB-755†	1 3/4	1.71	86 P 907	CB-756†	1 3/4	2.01		AC-4221	%4	1.80
3x17x6 2x7x7 2x9x7 2x11x7 3x12x7	80 P 461 80 P 462 80 P 463 80 P 464	CB-789† CB-790† CB-791† CB-792†	1 1/4 1 1/4 1 1/4 1 1/4	1.42	86 P 272 86 P 273 86 P 274 86 P 275	CB-1191† CB-1192† CB-1193† CB-793†	1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ¾	1.47 1.56 1.64 2.01	86 PX 935 86 P 15 86 P 16 86 P 17 86 P 18	AC-433** AC-405‡ AC-406‡ AC-407‡ AC-408‡	1 1/4 1/2 1/2 1 1 1 1/4	2.62 1.32 1.43 1.55 1.96
2x13x7 21/x131/x5 3x15x7 3x15x81/ 3x17x4	80 P 465 80 P 466 80 PX 467 80 PX 468 80 PX 469	CB-646† CB-647† CB-649† CB-665† CB-1068†	2 1 ³ / ₄ 2 2 ¹ / ₄ 2 ¹ / ₄	1.73 1.96 2.20	86 P 276 86 P 908 86 PX 909 86 PX 910 86 PX 911	CB-1194† CB-1198† CB-1189† CB-666† CB-1066†	2 1 3/4 2 2 1/2 2 1/4	1.88 2.13 2.35 2.66 2.10	86 P 119 86 PX 936 86 PX 937	AC-409‡ AC-411** AC-432**	3/4 11/2 11/4	2.62
** 2½x17x7 3x17x7 2½x10x8 2½x12x8 3x12x8	80 PX 470 80 PX 471 80 P 472 80 PX 473 80 P 474	CB-648† CB-757† CB-701† CB-703† CB-759†	2 ½ 1 ¾ 2 2 ½ 1 ¾	1.69	86 PX 912 86 PX 913 86 P 914 86 PX 915 86 P 916	CB-1199† CB-758† CB-702† CB-704† CB-760†	2 ½ 1 ¾ 2 2 ½ 1 ¾	2.32 2.54 1.98 2.20 2.29	86 PX 938	ÄĊ-423**	1 3/4	2.69
2x17x8 3x17x8 3x12x10 3x14x10 2x17x10	80 PX 475 80 PX 476 80 P 477 80 P 478 80 PX 479	CB-650† CB-651† CB-652† CB-653† CB-654†	2½ 3¼ 3 4 3¼	1.67 2.01 1.85 2.00	86 PX 917 86 PX 918 86 P 919 86 P 920 86 PX 278	CB-774† CB-775† CB-1195† CB-779† CB-769†	2½ 3¼ 3 4 3¼	2.29 2.57 2.20 2.39	86 PX 940 86 PX 120 86 P 121 86 P 941 86 PX 942	AC-425** AC-412** AC-413** AC-414** AC-415**	1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¼	2.46 2.78 2.62 2.78 2.63
3x17x10 3x17x10 3x23x10 2x17x11 3x17x11	80 PX 480 80 PX 481 80 PX 482 80 PX 483 80 PX 484	CB-636† CB-655\$ CB-656\$ CB-657\$ CB-658\$	4 5 5 4 4 4 4 4 4	2.80 2.30 2.71	86 PX 921 80 PX 385 86 PX 922 86 PX 923 86 PX 266	CB-1196§ CB-637† CB-1197§ CB-770§ CB-771§	4 5 5 4 1/2 4 1/2	2.99 2.78 3.35	86 PX 122 86 PX 123	AC-426†† AC-417††	2 ½ 2 2 ½ 2 ½ 2 ¾ 2 ¾	3.35
2x17x12 3x17x12 2x17x13 3x17x13 4x17x10	80 PX 485 80 PX 486 80 PX 487 80 PX 488 80 PX 489	CB-663§ CB-664§ CB-659§ CB-660§ CB-640§	41/4 51/4 5 51/4 61/4	2.85 2.85 3.34	86 PX 925 86 PX 268 86 PX 269 86 PX 270 86 PX 926	CB-661 \$ CB-662 \$ CB-772 \$ CB-773 \$ CB-641 \$	4½ 5¼ 5 6½	3.03 3.60 3.65 3.99	86 PX 128 86 PX 944 86 PX 124 86 PX 125	AC-418†† AC-419†† AC-420†† AC-427††	2 ³ / ₄ • 2 ¹ / ₂ 2 ³ / ₄ 3 ¹ / ₂	4.00 3.44 4.17 4.42
4x17x13 5x17x10 5x17x13	80 PX 490 80 PX 491 80 PX 492	CB-642 \$ CB-623 \$ CB-625 \$	7½ 7½ 8	3.84	86 PX 927 86 PX 928 86 PX 929	CB-643\$ CB-624\$ CB-626\$	7½ 7½ 8		86 PX 126	AC-428††	33/4	5.15

BOTTOM PLATES FOR CHASSIS BASES

Bottom plates to fit the chassis bases listed above. Ideal for shielding. In zinc-plated or black ripple heavy-gauge steel plate and aluminum Four raised bosses in corners to prevent marring and scratching of table-tops

	1		ack Wrinkle	TO LING W	diminum. Four		. Dimed it	n use with No	o. 6 self-tapping scre	Ws.	
Size	Lbs.					Zinc Plated			Aluminum		
		Stock No.	Type No.	NET	Stock No.	Type No.	NET	Stock No.	Type No.	Lbs.	NET
5x7"	1/2	80 P 386	BP-705	.56	80 P 406	BP-706	.68	80 P 426	BPA-1589		
5x91/4" 5x10"	3/4 3/4	80 P 387	BP-680	.61	80 P 407	BP-667	.73	80 P 427	BPA-1590	1/8	.73
7x7"	1 14	80 P 388 80 P 389	BP-536	.66	80 P 408	BP-538	.72	80 P 428	BPA-1591	1/	.73
7x9"	1	80 P 390	BP-681 BP-682	.90	80 P 409	BP-668	.95	80 P 429	BPA-1592	1/6	:75
7x11"	1			.92	80 P 410	BP-669	.97	80 P 430	BPA-1593	1/4 1/4 1/3 1/3	.78
7x12"	11/4	80 P 391 80 P 392	BP-683	.93	80 P 411	BP-670	1.05	80 P 431	BPA-1594		.88
7x13"	11/4	80 P 393	BP-537 BP-684	.97	80 P 4 ! 2	BP-539	1.10	80 P 432	BPA-1595	14	.95
5x131/4"	1	80 P 394	BP-685	1.00	80 P 413 80 P 414	BP-671	1.18	80 P 433	BPA-1596	1/3 1/2 1/2	1.12
4x17"	11/2	80 P 395	BP-1069	.82	80 P 4 5	BP-672 BP-1067	1.98		• • • • • • • • • • • • • • • • • •		
₹ 7x17"	11/2	80 P 396	BP-686				1.05				
8x10"	1 1/4	80 P 400	BP-707	.88	80 P 416 80 P 417	BP-673	1.34				
8x12"	1 1/2	80 P 397	BP-709	1.04	80 P 418	BP-708 BP-710	1.03				
8x17"	1 3/4	80 P 398	BP-687	.93	80 P 4 19	BP-674	1.31		• • • • • • • • • • • • • • • • • • • •		
10x12"	1 1/2	80 P 399	BP-688	.93	80 P 420	BP-675	1.54		• • • • • • • • • • • • • • • • • • • •		
10x14"	11/2	80 P 401	BP-517	1.22	80 P 421	BP-514				• • • • • •	
10x17"	1 3/4	80 P 402	BP-689	1.18	80 P 422	BP-676	1.30	80 P 434	*************		
11x17"	1 1/2	80 P 403	BP-690	1.18	80 P 423	BP-677	1.57	60 F 434	BPA-1597	3/4	1.49
12x17" 13x17"	21/	80 P 404	BP-691	1.24	80 P 424	BP-678	1.83		* * * * * * * * * * * * * * * * * * * *		
13x1/*	21/4	80 P 405	BP-692	1.44	80 P 425	BP-679	2.20	80 P 435	BPA-1598	3/4	
F100 A 3 C	14 DILLES								1070	74	2.03

HEAVY-DUTY CHASSIS BASES



Rugged chassis bases. Formed of one-piece heavy 1/6" steel. Corners spot welded and sides folded over at bottom. Electro-zinc plated. With bottom plates and screws.

Stock	No.	Туре	H.W.D.	Lbs.	NET
86 PX 86 PX	242 243 244	CB-1765 CB-1767 CB-1768 CB-1769 CB-1770	3x17x8" 3x17x11" 2x17x13" 3x17x13" 4x17x13"	91/2	4.66 4.74 5.23 5.32 5.73

OPEN-END CHASSIS



Stock No.	Туре	H.W.D.	For Cabinet	NET
80 P 437 80 P 438 80 P 440 80 P 441 80 P 443	CB-30 CB-41 CB-996 CB-976 CB-997	1½ x9x7½"	C-973 C-993 C-999, CD-1481 C-994, CD-1482	1.27
80 P 444 80 P 436 80 P 439 80 P 442	CB-38 CB-39	2x6x7" 2x8x7"	C-995, CD-1483 C-1584 C-1585 C-1586	1.56

MINIATURE ALUMINUM CHASSIS



Open-end aluminum chassis for limited space applications. Excellent for use with miniature tubes and for sub-assemblies. Have 14" mounting flanges. Av. shpg. wt., ½ lb.

Stock No.	Type	п. w. D.	Lot Capitler	MEI
80 P 446 80 P 452	CB-1624 CB-1617	1x3½x1¾" 1x3½x4"	CU-883 C-1606	.41
80 P 448 80 P 453	CB-1626 CB-1618	1x4½x2¾° 1x4½x4°	CU-728 C-1607	.44
80 P 454 80 P 455 80 P 445	CB-1619 CB-1620 CB-1623	1x5½x4" 1x6½x4" 1¼x2¾x25%"	C-1608 C-1609	.52 .54 .37
80 P 450 80 P 449 80 P 451 80 P 447	CB-1628 CB-1627 CB-1629 CB-1625	1½x6½x3″ 1½x4½x3¾″ 1½x4½x5¾″ 2x4½x3¼″	C-1788 CU-729 CU-1098 C-1788	.52 .44 .56

Bud Metal Products

ALUMINUM MINIBOXES

Two-piece aluminum boxes with gray ham-nertone or natural aluminum finish. Partic-ilarly suited for sub-assemblies. May be used for amplifiers, converters, TVI filters, est units, etc. Two-piece construction per-nits easy access to circuitry. Flanges assure ow RF leakage and high rigidity. Dual-pur-pose snap locks permit quick assembly and lisassembly; also permit use with self-tap-bing screws (supplied).



Size AxCxB	Shpg. Wt., Lbs.	Gray Hammer- tone	Mfr's - Type	NET EACH	Natural Aluminum	Mfr's Type	NET EACH
134 x21/8 x15/8" 114 x21/8 x11/8" 114 x21/8 x15/8" 114 x21/8 x15/8" 1x2x23/4" 1x21/8 x15/8"	1/4 1/4 1/4 1/4 1/4	80 P 342 80 P 359 80 P 343 80 P 357 80 P 344	CU-2100A CU-2117A CU-2101A CU-2115A CU-2102A	.73 .76 .74 .90	80 P 360 80 P 377 80 P 361 80 P 375 80 P 362	CU-3000A CU-3017A CU-3001A CU-3015A CU-3002A	.58 .61 .60 .73 .63
1x2½ x2½" 1¼ x2¼ x1½" 5x2¼ x2¼" 5x4x3" 5½ x3x2½8"	1/4 1/4 1/4 1/4 1/2 1/4	80 P 345 80 P 358 80 P 346 80 P 347 80 P 348	CU-2103A CU-2116A CU-2104A CU-2105A CU-2106A	.88 .90 .93 1.18 1.00	80 P 363 80 P 376 80 P 364 80 P 365 80 P 366	CU-3003A CU-3016A CU-3004A CU-3005A CU-3006A	.71 .73 .74 .94
5x5x4" /x5x3" 3x6x3½" 10x2x15%"	3/4 -3/4 1 1/2	80 P 349 80 P 350 80 P 351 80 P 355	CU-2107A CU-2108A CU-2109A CU-2113A	1.47 1.62 2.06 1.18	80 P 367 80 P 368 80 P 369 80 P 373	CU-3007A CU-3008A CU-3009A CU-3013A	1.18 1.29 1.65 .94
10x6x3½" 12x2½x2¼" 12x7x4" 17x5x4"	1 ¹ / ₄ 3/ ₄ 1 ³ / ₄ 2 ¹ / ₄	80 P 352 80 P 356 80 P 353 80 P 354	CU-2110A CU-2114A CU-2111A CU-2112A	2.30 1.52 3.14 3.14	80 P 370 80 P 374 80 P 371 80 P 372	CU-3010A CU-3014A CU-3011A CU-3012A	1.84 1.22 2.51 2.51

METAL UTILITY CABINETS

Metal utility cabinets for all types of electronic equipment. Excellent for housing receivers, monitors, VFO's, test equipment, frequency meters, transmitters, etc. Well adapted for shielding of high gain preamplifiers, RF sections, other special circuits. Two removable panels attach to flanges with self-tapping screws. *Aluminum.



NET

H.W.D.	Туре	Lbs.	Black	1		Gray	EACH
4x4x2" 4x5x3" 6x5x4" 6x6x6" 9x6x5"	CU883 CU728 CU729 CU1098 CU1099	3/4 7/8 11/4 21/2 3	86 P 20 86 P 20 86 P 20 86 P 20 86 P 20	01 5	80 80 80	P 332 P 333 P 334 P 335 P 336	1.07 1.20 1.35 2.05 2.29
10x8x7" 10x10x8" 12x7x6" 12x11x8" 15x9x7"	CU879 CU880 CU1124 CU881 CU882	5½ 6 7½	86 PX 86 PX 86 PX 86 PX 86 PX	207 206 208	80 80 80	PX 337 PX 339 PX 338 PX 340 PX 341	3.27 3.93 3.22 4.25 4.42
Size, H.W.D.	Mfr's Type	Wt., Lbs.	Etched Aluminum	NET EACH		* Gray Hammerton	e EACH
4x4x2" 4x5x3" 6x5x4" 6x6x6" 9x6x5"	AU-1083 AU-1028 AU-1029 AU-1039 AU-1040	1/4	88 P 543 88 P 544 88 P 545 88 P 546 88 P 547	1.26 1.34 1.47 2.13 2.46		88 P 549 88 P 549 88 P 550 88 P 551 88 P 552	1.64

Stock No. (Steel)

UNIVERSAL SLOPING-PANEL CABINETS

Versatile, streamlined sloping-panel cabinets available in steel or aluminum. Offer enough space to house a two or three miniature tube amplifier or gadget. Sides and one-piece detachable back fasten to the body with self-tapping screws for easy service and replacement of components. Fully enclosed to exclude dust and moisture. Easily accommodate most small chassis. All units are 4" high, 41/4" deep. Finished in attractive, gray hammertone finish.



Width	Steel Stock No.	Mfr's Type	Shpg. Wt., Lbs.	NET EACH	Aluminum Stock No.	Mfr's Type	Shpg. Wt., Lbs.	NET EACH
4" 5" 6"	88 P 642 88 P 643 88 P 644 88 P 645	C-1606 C-1607 C-1608 C-1609	3/4 3/4 11/8 11/8	1.42	88 P 646 88 P 647 88 P 648 88 P 649	AC-1610 AC-1611 AC-1612 AC-1613	1/2 1/2 1/2 3/4 3/4	1.65 1.71 1.86 2.06

SHIELDED-SURFACE RACK PANELS

1/8" thick, naturally bright aluminum alloy relay rack panels in blemish-free mill finish. Covered on both sides with sturdy, pressure sensitive white paper to protect against damage. Paper is excellent surface on which to mark panel for hole-cutting and drilling. 19" wide; standard notching.



Height	Shpg.	Mfr's	Stock	NET
	Wt., Lbs.	Type	No.	EACH
1 3/4"	1/4	SFA-1831	88 PX 662	.95
3 1/2"	3/4	SFA-1832	88 PX 663	1.31
5 1/4"	1	SFA-1833	88 PX 664	1.76
7"	13/4	SFA-1834	88 PX 665	2.17
8 ³ / ₄ "	2	SFA-1835	88 PX 666	2.61
10 ¹ / ₂ "	2 1/2	SFA-1836	88 PX 667	3.27
12 ¹ / ₄ "	2 3/4	SFA-1837	88 PX 668	3.77
14"	3	SFA-1838	88 PX 669	4.36
15 ³ / ₄ "	3½	SFA-1839	88 PX 670	4.87
17 ¹ / ₂ "	4	SFA-1840	88 PX 671	5.36
19 ¹ / ₄ "	4¼	SFA-1841	88 PX 672	5.87
21"	5	SFA-1842	88 PX 673	6.37

Steel cabinets for electrical or electronic devices not requiring excessive depth. Feature recessed hinged cover with convenient finger lift; panels fit flush with embossed, rounded corner fronts. All components built into cabinets are easily accessible. Have 3½"-high opening across the back for cables or rear controls. Louvered sides provide ample ventilation. All are 8" high and 8½" deep except *12" high and 12" deep. CD-1485 has ½" vertical chrome strip fastened to corners. Bud open-end chassis are recommended for use in these cabinets. Choice of gray hammertone or black wrinkle finish.



Si	ze	Mfr's			Wt.,	NET
Width	Panel	Туре	Hammertone	Wrinkle	Lbs.	EACH
10½" 12½" 14½" 16½" 18½" 205%"	8x8" 8x10" 8x12" 8x14" 8x16" 12x18"	CD-1480 CD-1481 CD-1482 CD-1483 CD-1484 CD-1485*	88 PX 650 88 PX 652 88 PX 654 88 PX 656 88 PX 658 88 PX 660	88 PX 651 88 PX 653 88 PX 655 88 PX 657 88 PX 659 88 PX 661	5¾ 6 6½ 7 7¾ 15	5.78 5.89 6.18 6.63 7.21 14.65

COWL-TYPE MINIBOXES

Bud's cowl-type miniboxes. Attractively styled; easily drilled or punched. Have projecting cover which reduces glare on the panel from overhead lighting. Also provide protection for knobs, switches, and meter faces. May be used for housing receivers, transmitters, test equipment, etc. Cover has two ½" box braces to which bottom is attached with #6 sheet metal screws provided. This construction results in a sturdy, rigid housing. All are made of long-lasting, 18-gauge aluminum. Choice of handsome, gray hammertone finish or natural aluminum finish.



Size H.W.D.	Shpg. Wt. Lbs.	Gray Hammertone	Mfr's Type	NET EACH	Natural Aluminum	Mfr's Type	NET EACH
6x10x7" 7x12x8" 3x8x6" 5x5x5"	1½ 1½ 1 1	88 PX 684 88 PX 685 88 P 686 88 P 687		6.37	88 PX 688 88 PX 689 88 P 690 88 P 691	SC-3030 SC-3031 SC-3032 SC-3033	4.21 4.61 2.40 2.55

SLOPING-PANEL CABINETS

Sloping-panel steel cabinets with hinged top for easy access to tubes and top-of-chassis components. Removable front panel permits easy attachment of chassis. Fit following sized chassis: Type C-1584, 7x6x2"; Type C-1585, 7x8x2"; Type C-1586, 7x10x2"; Type C-1587, 7x7x2"; Type C-1588, 7x9x2"; Type C-1892, 8x12x2½"; Type C-1893, 10x17x3"; Type C-1894, 7x13x2"; Type C-1896, 7x17x3". In black wrinkle or light-gray hammertone finish.



Size	Wt.,	Mfr's	Stock No.	Mfr's	Stock No.	NET
H.W.D.	Lbs.	Type	Black	Type	Gray	EACH
6½x7½6x75/6" 6½x9½6x75/6" 6½x11½6x75/6" 6½x11½6x75/6" 8x13½6x8½" 10x18¼6x10½"	2½ 3 3½ 5¼ 8½	C-1584 C-1585 C-1586 C-1892 C-1893	86 PX 900 86 PX 901 86 PX 902 86 PX 903 86 PX 904	C-1584HG C-1585HG C-1586HG C-1892HG C-1893HG	88 PX 576 88 PX 577 88 PX 578 88 PX 581 88 PX 582	3.23 3.67 4.25 5.83 7.69
8x81/ ₁₆ x8"	2 ³ / ₄	C-1587	86 PX 968	C-1587HG	88 PX 579	4.42
8x101/ ₁₆ x8"	3 ¹ / ₄	C-1588	86 PX 969	C-1588HG	88 PX 580	4.91
8x141/ ₁₆ x8"	4	C-1894	86 PX 970	C-1894HG	88 PX 583	5.23
9x181/ ₁₆ x81/ ₈ "	7	C-1896	86 PX 971	C-1896HG	88 PX 584	7.53

ALUMINUM AND STEEL CARRYING CASES

Ideal housings for portable transceivers, test instruments, power supplies, radio-control units, field strength meters, phono oscillators, etc. Ruggedly constructed to withstand hard usage. Front and back panels mount with self-tapping screws. Panels are easily removable to provide access to interior; can be used for mounting components such as meters, relays, transformers, power resistors, etc. Available in either welded steel for maximum strength, or in aluminum for light weight. Steel units in black wrinkle or gray hammertone finish; aluminum units in natural, or gray hammertone finish.



PORTABLE STEEL CASES

Size	Mfr's	Wt.,	Stock No.	Stock No.	NET
H.W.D.	Type	Lbs.	Black	Gray	EACH
9x6x5"	CC-1095	3½	80 P 798	80 P 813	2.95
6x9x5"	CC-1091	3½	80 P 799	80 P 814	2.95
12x7x6"	CC-1096	4	80 PX 808	80 PX 816	4.10
7x12x6"	CC-1092	4	80 PX 809	80 PX 817	4.10
15x7¾x7"	CC-1097	5	80 PX 810	80 PX 818	4.59
10x10x8"	CC-1100	5	80 PX 811	80 PX 819	4.74
9x15x7"	CC-1093	5	80 PX 812	80 PX 848	5.73

PORTABLE ALUMINUM CASES

Size	Mfr's	Wt.,	Stock No.	NET	Stock No.	NET
H.W.D.	Type	Lbs.	Natural	EACH	Gray	EACH
9x6x5"	ACC-2095	11/8	88 P 567		88 P 571	3.44
6x9x5"	ACC-2091	11/8	88 P 565		88 P 569	3.44
12x7x6"	ACC-2096	11/3	88 PX 568		88 PX 572	4.99
7x12x6"	ACC-2092	11/3	88 PX 566		88 PX 570	4.99

MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS



Sturdily-made, unusually compact, steel utility cabinets with a built-in chassis attached to the front panel. Especially suitable for standing-wave bridges, frequency meters, small transistorized receivers, code practice oscillators, decade boxes, crystal sets, and many other types of small, self-contained units. Removable front and rear panels fastened with self-tapping screws permit easy access to components and provide maximum layout flexibility. Black-wrinkle enamel finish.

Stock	Mfr's	Cabinet		Wt.,	NET
No.	Type	H.W.D.		Lbs.	EACH
80 P 326 80 P 327 80 P 328 80 P 329 80 P 330 80 P 331	C-1794 C-1795 C-1796 C-1797		1x3½x1½″ 1x4½x2½″ 1¼x3½x2½″ 1¾x4½x3½″ 1¾x5½x3½″ 1¼x5½x3½″ 1¾x5½x3½″	3/4 1 1 1 ³ / ₄ 1 ³ / ₄ 2 ³ / ₄	1.31 1.45 1.59 1.67 1.88 2.13

PANEL-MOUNTING CHASSIS



Ideal for vertical chassis installation where space in depth is limited or front service is desired. Open-side chassis for standard 19" mounting. .062" ruers. 1" flange on

aluminum with reinforced corners. 1" flange on ends, with 4 elongated holes for mounting to any rack with std. panel notching. All other edges have \(\frac{5}{8}" \) flanges. All models 17" wide, excluding flange, and \(5\frac{5}{12}" \) deep.

Stock N	lo.	Туре	Height	Lbs.	NET
	85	CB-1370	1 3/4"	3/4	2.25
86 PX I	86	CB-1371 CB-1372	3 ½" 5 ¼"	14	2.54
	88	CB-1373	7"	1 1/2	2.78 3.19
86 PX I	89	CB-1374	83/4"	21/4	3.68
86 PX I		CB-1375	101/2"	23/4	4.34
86 PX I		CB-1376 CB-1377	121/4"	3.	4.74
00 PX 1	721	CD-13//	14"	31/4	5.23

STANDARD AMPLIFIER **FOUNDATIONS**



Stock No.	Туре	H.W.D.	Lbs.	NET
80 PX 697 80 PX 698 80 PX 699 80 PX 656	CA-1125 CA-1126	85/16x95/8x51/8" 85/16x133/8x51/8" 85/16x171/8x71/8" 813/16x121/8x101/8"	3 4 ³ / ₄ 6 7	5.50 6.30 7.11 7.37

SHADOW CABINETS



Versatile housing for amplifiers, test equipment, etc. Both front panels as well as the bottom may be removed for installation and servicing pur-

panel is recessed 1" to protect controls, meters, etc. Recessed panel and bevelled front edges of cabinet provide attractive appearance. Body constructed of 18-gauge steel, panels of 16-gauge steel. Rubber feet attached to bottom of cabinet prevent marring of the surface on which it may be placed. Finished in attractive, light gray Hammertone.

Stack No.	Mfr's Type		Use Bud Chassis		
82 PX 746 82 PX 747 82 PX 748 82 PX 749	SB-2141 SB-2142	7½ x13¼ x9° 9½ x17x11°	AC-424 AC-407 CB-666 AC-409	9 ³ / ₄ 15 ¹ / ₄	4.90

UTILITY CABINETS



Attractive housing with rounded corners. All constructed of 20 gauge steel. Front and rear panels removeable; rear panel louvered for ventilation. 4 rubber feet. Body finished in dark gray enamel, panels in light gray enamel.

Stock No.	Mfr's Type	Size H.W.D.	Wt., Lbs.	NET EACH
88 P 692 88 P 693 88 P 694 88 PX 695 88 PX 696 88 PX 697	CU-463 CU-465 CU-585 CU-587 CU-7125 CU-7127	47/32×67/32×33/4" 47/32×67/32×55/4" 57/32×87/32×55/4" 57/32×87/32×73/4" 77/32×127/32×53/4" 77/32×127/32×73/4"	13/4 21/4 3 33/4 5 6	5.39 6.22 8.18 8.82 9.51

UNIVERSAL METER CASES



For use with 2" or 3" meters. With front panel for 2" meter. Knockout ring enlarges hole for a 3"meter. Have one-piece back and side attached with 4 screws. Top has two 3%" knockouts for terminal posts or feed-throughs. Steel or aluminum; gray Hammertone 4½x4x4".

Stock No.	Туре	Material	Lbs.	NET
88 P 541	CM 1935 CMA 1936	Steel	1	1.20
88 P 542	CMA 1936	Aluminum	3/4	1.44

INSTRUMENT AND RECEIVER CABINETS



Ruggedly con-structed steel structed steel cabinets, Have recessed hinged cover for easy ac-cess. Front panel is held securely in place with self-tanning screws tapping screws. Panel extends full width of cab-

inet—provides
maximum space
for controls. Louvers on each side assure ample

ventuation. Diack withkie enamer innsn.						
St	ock	No.	Туре	H.W.D.	Lbs.	NET
80	PX	378 379 380 381	C-973 C-993 C-994 C-995	7x8x8" 7x10x8" 7x12x8" 7x14x8"	5 5 1/2 5 3/4 6	4.10 4.74 4.91 5.15
80	PX	382 383 384	C-1190 C-975 C-999	8x16x8" 9x15x11" 12x18x12"	7 8 15	7.45 9.01 9.72

MINIATURE AMPLIFIER FOUNDATION



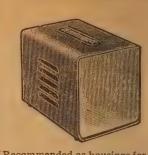
STANDARD RACK PANELS



Heavy-duty rack panel constructed of ½" aluminum. All are 19" in width and have notched edges to fit mounting screw spacing of all standard telephone type relay racks. Light gray Hammertone finish.

Canale No. 1	Adams - Inches	1387	A1
Stock No.	Height	Wt., Lbs.	NET
88 PX 601	1 3/4"	1/4	1.07
88 PX 602	3 1/3"	3/4	1.39
88 PX 603	51/4"	1	1.88
88 PX 604	7"	1.34	2.37
88 PX 605	83/4"	2	
88 PX 606	101/2"	21/2	2.78
88 PX 607	121/4"	2 72	3.52
88 PX 608	14"	234	4.01
-		3	4.66
88 PX 609	15 % "	31/2	5.23
88 PX 610	173/2"	4	5.73
88 PX 611	191/4"	41/4	6.30
88 PX 612	21"	5 -	6.87

NEW PORTACAB CABINETS



Aluminum Construction

cessed Handies for Stacking

Louvered for Adequate Ventilation

Recommended as housings for instrumentation requiring highly stylized appearance. The body is one-piece .050" aluminum with contoured corners. Panel is .062" aluminum. Flexible recessed handle permits easy portability as well as vertical stacking. Louvers point inward permitting side-to-side placement without loss of space. Welded back has opening. Four detachable rubber feet are provided. Available in gray hammertone finish only.

Stock No.	Mfr's. Type				NET
88 PX 227 88 PX 226 88 PX 228 88 PX 229 88 PX 233	WA-1541 WA-1542 WA-1543	9x8½x12″ 8x10½x8″ 11x11½x18″	AC-402 AC-407 AC-406 AC-416 AC-420	3 ¹ / ₂ 6 ¹ / ₂	12.00 10.65 13.50

DESK-TYPE RACKS

A strong chassis ideally suited for mounting heavy components. Perfect for table mounting of low and medium power transmitters, P.A. systems, and other electronic equipment. Designed for use with standard 19" panels. No exposed edges. With hardware, Gray hammertone finish.

Stock No.	Mfr's Type	Panel Ht.		Wt., Lbs.	
86 PU 879	RR-1248	21"	24x203/8x12"	15	8.92
86 PU 880	RR-1249	28"	31x201/8x12"	18	

CHASSIS MOUNTING BRACKETS



An excellent accessory for adapting racks and cabinets to specific needs. A rugged, top-quality bracket formed of heavy gauge steel. Cut away at the bottom to provide clearance for a chassis 3" high. Finished in high-grade black enamel. For use with 4" chassis. Av. wt., 3 lbs.

Stock No.	Туре	Ht.	Depth	Per Pr.
86 P 219 86 P 220 86 P 218	MB-448	61/3"	8" 10" 11"	1.07
86 P 221 86 P 224 86 P 222 86 P 223	MB-460 MB-450	6½" 6½" *8½" *8½"	12" 13" 10" 13"	1.71 1.66 1.93 2.05

UTILITY HANDLES



Stock No.	Туре	Lgth.	Mtg. Ctr.	NET
86 P 849 86 P 899	UH-70A	51/8"	45/8"	35¢
00,077	OII-/IA	0/4	0/4	274

PLASTIC CASES AND PANELS



Molded black plastic cases and panels designed for test instrument mounting. Sturdily constructed to protect meter and components. Cases have recessed corner bosses for flush mounting of panels. Pre-drilled for ½" self-tapping screws. Case walls and panels are ½" thick.

Stock	Size	Wt.,	NET
No.	H.W.D.	Lbs.	
86 P 286 86 P 287	614 x3 84 x2" 618/6x59/6x25/6"	1 1/2	.66

9. 3	MATCHING PA	NELS	
Stock No.	Size H.W.	Wt., Lbs.	NET
86 P 288 86 P 289	6x3½" 6½x5"	1 1	.48

Allied Stocks the Complete Line of Bud Relay Racks and Accessories



Most microphones listed in this catalog are supplied less connector. Choose from this complete selection of Amphenol connectors—you'll find one to meet any application. Precision construction assures con-

SERIES 75 SINGLE BUTTON CONTACT TYPES
Standard connectors 5/6", 27 threads; *3/6" mounting holes, †Indicates miniature connectors that are approximately half the size and weight of standard counterparts with same specifications, Av. shpg. wt., 3 oz.

Stock No.	Туре	Fig.	Description	NET
41 H 955 41 H 965 41 H 962	75-MC1M *75-PC1M	A B C D E	Combination cable plug & jack Cable plug Chassis receptacle, non-shorting Phone plug adapter 90° angle cable jack	.42
41 H 967 42 H 658 42 H 659 42 H 660	†75-2	F A B F	Chassis receptacle, closed circuit Straight plug Cable jack Locknut receptacle	.52 .48 .29 .33

SERIES 80 SINGLE & DOUBLE PIN CONTACT TYPES

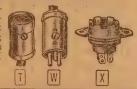
For shielded cables, single and two conductor coaxial cables, etc. Center contacts are pin and socket type. *Single-contact type. †Polarized, double-contact type. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	NET
42 H 084 42 H 661 42 H 080 42 H 662	*80-C *80-C1 *80-F *80-F	NGH	Female chassis receptacle Male chassis receptacle Female cable jack Female cable plug	.60 .60 .56
42 H 081 42 H 663 42 H 082 42 H 664	*80-M *80-M1 †80-MC2F †80-MC2F1	H G H	Male cable plug Male cable jack Female cable jack Female cable plug	.64 .52 .62
42 H 083 42 H 665 42 H 085 42 H 666	†80-MC2M1 †80-MC2M1 †80-PC2F †80-PC2M	HGNN	Male cable plug Male cable jack Female chassis receptacle Male chassis receptacle	.68 .52 .60

Type 75-CCC1 Cap and Chain. Seals open chassis units against dirt and dust. Chain has eye for securing to panei. Used with both series 75 and 80 receptacles. Shpg. wt., 3 oz.

SERIES 91 MINIATURE CABLE CONNECTORS

Compact connectors for shielded or unshieldompact connectors for shielded or unshielded cables. Polarized contacts prevent incorect insertion. For cables up to ¼" dia. Last etter in Type No. indicates: L, long (1¾6"); 3, short (1¾6"). Last fig. in Type No. denotes ontacts. PCG—chassis type. Figs. T and X are female types; Fig. W, male types. Av hpg. wt., 2 oz.



st	ock	No.	Туре	Fig.	NET	Sto	ck	No.	Туре	Fig.	NET
			91-MPF3L	T	.38	40	Н	574	91-MPM4S	W	.34
			91-MPF3S	T					91-MPM5L		.39
			91-MPF4L	T					91-MPM6L		.42
-			91-MPF4S	T	.35	40	М	330	78-PCG-3	\mathbf{X}	.20
			91-MPM3L	W					78-PCG4	X	.24
			91-MPM3S						78-PCG5	X	.24
U	11 3	20	91-MPM4L	W	.35	40	H	333	78-PCG6	X	.29

SERIES 143 PRINTED CIRCUIT CONNECTORS

recision connectors for printed circuit netrorks. Printed circuit board acts as male part f connector. Molded of diallyl phthalate dilectric; has gold plated contacts. Accept .061" o .071" printed circuit boards. *Polarizing eys. Av. shpg. wt., 2 oz.



Stock No.	Туре	Contacts	NET	Stock No.	Туре	Contacts	NET
10 H 503 12 H 675	143-006-01 143-010-01 143-012-01 143-015-01	10 12	1.05	40 H 501 40 H 502 42 H 676	143-022-01		1.63 1.83 .02

SERIES 133 PRINTED CIRCUIT PLUGS

fatching plugs for standard 143 series printed reuit connectors above. Have molded dially hthalate dielectric body, cadmium-plated rass guide pins, and cadmium-plated end caps nd brass contacts with gold-over-albaloy platig. Rugged contacts are not subject to damage y mating or unmating at an angle. Average voltage rating, 2300 volts ns at sea level; current rating meets or surpasses any printed circuit oard requirement. Av. shpg. wt., 2 oz.



Stock No.	Туре	Contacts	NET	Stock No.	Туре	Contacts NET
12 H 856 11 H 085 12 H 857	133-010-21	10	2.50	41 H 086 41 H 087 41 H 088	133-018-21	18 3.08

nections free from noise, leaks or shorts. Note: Type 75-MC1F (Fig. A) fits all Knight PA Amplifiers. When splicing 2 cords, use one 75-MC1F and one 75-MC1M connector for a strong, reliable joint.

SERIES 91—3 AND 4-CONTACT TYPES
Microphone connectors for portable equipment. Polarized to prevent incorrect insertion. Clamps eliminate stress on soldered connections.
*3-contact type. †4-contact type. Shpg. wt., 3 oz.

Stock No.	Туре	Fig.	Description	NET
41 H 970 42 H 667 41 H 971 42 H 668	*91-MC3F *91-MC3F1 *91-MC3M *91-MC3M1	J K K J	Female cable jack Female cable plug Male cable plug Male cable jack	.84 .92 .88
41 H 972 42 H 669 41 H 977 42 H 670	*91-PC3F *91-PC3M †91-MC4F †91-MC4F1	N N J K	Female chassis receptacle Male chassis receptacle Female cable jack Female cable plug	.72 .82 .90
41 H 976 42 H 672 41 H 978 42 H 673	†91-MC4M †91-MC4M1 †91-PC4F †91-PC4M	K J N	Male cable plug Male cable jack Female chassis receptacle Male chassis receptacle	.90 .82 .74 .82

Type 91-CCC3 Cap and Chain. Protects chassis jacks from dust.
Used for series 91 microphone connectors. Shpg. wt., 3 oz.
42 H 674. NET......38

SERIES 91 "QUIK" 3 AND 4-CONTACT TYPES

Push together; released by slight pressure on lock button. Gold-plated (over silver) bronze contacts. Incorrect insertions are impossible because connectors are polarized. Satin-nickel plated, zinc-alloy shells. *3-contact type. †4-contact type. Av. shpg. wt., 3 oz.

Stock No.	Туре	Fig.	Description	NET
42 H 065 42 H 066 42 H 067 42 H 068	*91-853 *91-854 *91-855 *91-856	L M R P	Male cable plug Female cable plug Male chassis receptacle Female chassis receptacle	1.34 1.54 1.00 2.23
42 H 069 42 H 070 42 H 071 42 H 072	†91-857 †91-858 †91-859 †91-860	L M R P	Male cable plug Female cable plug Male chassis receptacle Female chassis receptacle	1.42



Series 31 BNC Coaxial Connectors. Small weatherproof connector with bayonet coupling. Low-voltage, single contact, *For 50-ohm RG-55/U and RG-58/U cables, †For 70-ohm RG-59/U, FG-62/U and RG-71/U, Plugs mate with 31-003 or jacks. Av. wt., 3 oz.

Stock	Military No.	Mfr's	Fie	Description	NET EACH		
No.	minically 140,	Type	r ığ.	Description	1-9	10-49	
40 H 391 40 H 393 40 H 396 40 H 397	UG-260/U	31-002* 31-005* 31-012† 31-015†	Y	Plug Jack Plug Jack	1.11	.93 1.00 .98 1.04	
40 H 395 40 H 392 40 H 399	UG-290/U	31-011† 31-003* 31-001*		Panel Jack Receptacle Panel Jack	1.29	1.07	
Cantan 02	Al Consider Co.			1	1.4. Mt. etc.	4	

Series 82 N Coaxial Connectors, Low-voltage, 50 ohms; *70 ohms. Av. shpg. wt., 3 oz.

10 H 3 1 3 UG-21B/U 82-61 Plug for RG/U 8, 9, 10 1.91 1.59 10 H 520 UG-27A/U 82-64 Right-Angle Adapter 3.46 2.89 10 H 3 1 2 UG-58/U 82-24* Z Receptacle 1.22 1.02
10 H 5 9 UG-107A/U 82-36 T Adapter 5.55 4.63

Series 83 UHF Coaxial Connectors. Small single contact. Widely used for RF applications. All exposed metal silver plated. Wt., 3 oz.

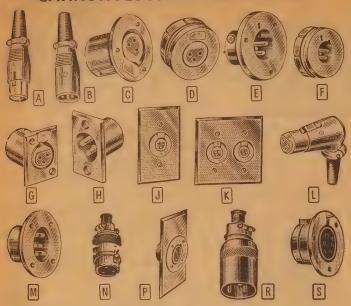
40 H 357	UG-106/U,	83-1H	AA	For RG/U 8, 9, 10,		4.1
	M-360, 49193	1	1	11, 12, 13, 63, 65	.27	.22
	UG-363/U, PL-274			Feed-Through Connector	1.98	1.65
		83-1T	1.22	"T" Adapter	2.64	2.20
		83-1J		Straight Adapter	1.15	.96
40 H 350	PL-259, 49190	83-1SP	CC	For RG/U 8, 9, 10, 11,		
4011350	00 000 10101			12, 13, 63, 65	.73	.61
40 H 352	SO-239, 49194	83-1R	ו טט	Receptacle Chassis Type	.75	.63

Solderless Type UHF Plug Connectors. 1.38 | 1.15 1.20 1.00

Allied stocks the complete line of Amphenol connectors; many are not listed in this catalog. Write, wire, or phone us for information.

Cannon, Switchcraft, and Lab-Tronics Connectors.

CANNON PLUGS AND RECEPTACLES



TYPE XLR CONNECTORS

Audio connectors with clamp and resilient socket insulator. Minimize mechanical interference and reduce noise. Feature satin-nickel finish, integral cable clamp, neoprene cable relief and push-action latchlock. First number in type column indicates number of contacts. -2G in Type No. indicates 2 gang. Available with three 15-ampere contacts, or four 10-ampere contacts. *Wall-type receptacles; †panel-type receptacles. ‡Indicates steel shell, others are die-cast zinc. Av. shpg. wt., 4 oz.

STRAIGHT CORD PLUGS

Stoc	k No.	Mfr's Type	Fig.	Description	NET
41 H	1 212	XLR-3-11C XLR-4-11C XLR-3-11SC‡ XLR-4-11SC‡	A A A	Female (socket insert) Female (socket insert) Female (socket insert) Female (socket insert)	1.29 1.64 3.49 3.55
41 H	1 213	XLR-3-12C XLR-4-12C XLR-3-12SC‡ XLR-4-12SC‡	B B B	Male (pin insert) Male (pin insert) Male (pin insert) Male (pin insert)	1.13 1.20 2.68 2.87

	WALL AND PANEL RECEPTACLES									
41 41 41	H	214 215 216 217	XLR-3-13† XLR-4-13† XLR-3-13N† XLR-4-13N†	CCDD	Female (socket insert) Female (socket insert) Female (socket insert) Female (socket insert)	1.85 1.93 2.14 2.20				
41 41 41	H	218 219 223 224	XLR-3-14* XLR-4-14* XLR-3-14N† XLR-4-14N†	EEFF	Male (pin insert)	.83 .87 1.73 1.87				
40 41 40 41	H	792 225 793 226	XLR-3-31* XLR-4-31* XLR-3-32* XLR-4-32*	G H H	Female (socket insert) Female (socket insert) Male (pin insert) Male (pin insert)	1.93 1.99 1.10 1.22				
40 40		987 988	XLR-3-35* XLR-3-35-2G*	J K	Female (socket insert) Female (socket insert)	4.03 7.42				

90° PLUGS

	XLR-3-15 XLR-4-15	L	Female Female	(socket insert)	3.38 3.41

TYPE P CONNECTORS

3-contact receptacles and cable connectors for audio circuits. For any size wires up to No. 10. 30 amp capacity per contact. Black phenolic insulation. *Zinc with satin-chrome finish. †Steel shells and zinc cable clamp. §P3-13 with satin-chrome brass plate.

40	H	707 P3-13* 757 P3-14*	S M	Panel mount, female (socket) Panel mount, male (pin)	3.68
40	H	724 P3-CG-11S† 701 P3-CG-12S† 709 P3-35§	N R P	Cable plug, female (socket) Cable plug, male (pin) Wall mount, female (socket)	4.16 3.40 5.74

SWITCHCRAFT MINIATURE MIKE CONNECTORS



"Mini-Con" connectors for use with single-conductor cable up to \(\frac{1}{6} \) in diameter (single-conductor and a shield). Ideal for lapel microphones, musical instruments, etc.—half the size of standard mike connectors. Body and ring are nickel-plated brass. 5501F has removable coupling ring. Braid of cable can be soldered to spring; the spring is then clamped into body by hollow point set screw. Panel receptacle 5501MP mounts in \(\frac{1}{6} \) mounting hole. Av. shops. wt., 2 oz.

Type 5501F. Straight connector with single contact, female type coupling ring. Bright nickel-plated brass.

NET .35

SWITCHCRAFT ADAPTER-CONNECTORS

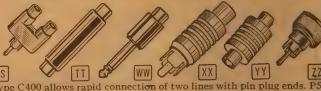


Stock No.	Туре	Fig.	Description	NE
41 H 460 40 H 382 41 H 768	343 345Z 332A	Y Z AA	Phono jack input; phone plug output. Built-in limiting resistor for cord. Phone plug out; phono jack in. 2-cond. phone jack input to female or male mike output; main body ½".	1.1
41 H 769 41 H 657	334A 44	BB	Phono jack input to female microphone connector output. Adapts Amphenol Type 75-MC1F or 75-MC1F-A connectors for use with standard 1/4" phone jacks.	The state of the s
41 H 773 40 H 940 41 H 774	338A 364 349A	DD EE FF	Phono plug to male mike connector. 2-cond. "tini-jack" input; standard phone plug out. Phono plug coupler mates with phono plug at each end; gray plastic.	
41 H 779 40 H 938	369 361	GG	Std. 2-cond. phone plug to 2-cond. short extension jack (used on late models Revere and Wollensak recorders). 2-cond. phone jack coupler mates with phone plug at each end.	12
41 H 772 41 H 649 40 H 939	336A 346 340	JJ KK LL	2-conductor phone jack input to phono plug output; main body 1/2. Tip jack input to phone plug output. 2 standard phone jack inputs connected in parallel to 2-cond, phone plug output.	1.
41 H 983 41 H 984 41 H 992	330F1 330F2 330F3	MM	Flexible Y-connector; 2 phono jacks to std. phono plug. Shielded. 4". Same as above, but phono plug and phono jack to phono plug. Same as above two types, but 1 phono plug to two phono plugs.	1.
41 H 764 41 H 994 41 H 229	330F 330M 330PJ	NN PP RR	2 phono jacks connected in parallel to standard phono plug. Y-adapter, 2 male mike connectors to standard 2-cond. phone plug. Y-adapter; standard phone plug to 2 phono jacks.	1.4

NEW SWITCHCRAFT HANDY ADAPTER KIT



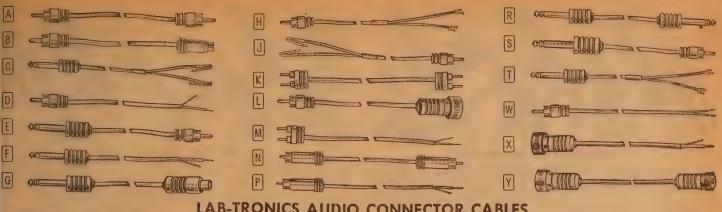
LAB-TRONICS JACK ADAPTERS, CONNECTORS



Type C400 allows rapid connection of two lines with pin plug ends. P5 allows connection of standard pin plug to phone jack. MP is pin p with mike connector. Av. shpg. wt., 4 oz.

Stock No.	Туре	Fig.	Description	N
91 H 582	A754	SS	2 Phono Pin Jacks; Phono Pin Plug	1.
94 H 458	C400	TT	Double-ended Phono Pin Jack	
71 H 289	P55A	WW	Phono Pin Jack; Phone Plug	
89 H 991	A750	XX	Phone Jack; Phono Pin Plug	1:
89 H 992	A753	YY	Phono Jack; Phono Pin Jack	
71 H 290	MP	ZZ	Mic; Phono Pin Plug	

Connector Cables, Connectors, Plugs



LAB-TRONICS AUDIO CONNECTOR CABLES

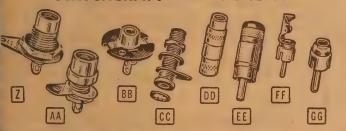
Invaluable accessories for trouble-free installation of hi-fi components. Cables are soldered prior to molding for noise-free connections.

Stock No.	Type	Fig.	Description	NET
99 H 855	C101	A	18"; pin plug on each end 36"; pin plug on each end	.53
99 H 857	C103	A	72"; pin plug on each end	.62
99 H 992		A B	120"; pin plug on each end 36"; pin plug one end, jack other end	1.09
94 H 457 99 H 993 39 H 957 39 H 964 94 H 470	C204 P7210* P7220*	B B C C D	72"; pin plug one end, jack other end 120"; pin plug one end, jack other end 10'; phone plug one end, clips other end 20'; phone plug one end, clips other end 36"; pin plug one end, bare other end	.88 1.18 1.15 1.44
39 H 965	C108 C4406	DDEEE	72"; pin plug one end, bare other end 120"; pin plug one end, bare other end 72"; pin plug one end, phone plug other end 10'; pin plug one end, phone plug other end 15'; pin plug one end, phone plug other end	1.32
19 H 966 19 H 998 19 H 750	C4006 C4010 C4015 C4606 C4610	FFFGG	72"; phone plug one end, bare other end 10'; phone plug one end, bare other end 15'; phone plug one end, bare other end 172"; phone plug one end, jack other end 10'; phone plug one end, jack other end	.94 1.18 1.47 1.68 1.85
19 H 956 19 H 967	C4615 P6110* P6120* P6210* P6220*	H	15'; phone plug one end, jack other end 10'; pin plug one end, lugs other end 20'; pin plug one end, lugs other end 10'; pin plug one end, clips other end 20'; pin plug one end, clips other end	2.15 .62 .91 .85

Dual pin plugs on Figs. K and M are spaced 7/6" (standard) for stereo

Stock	No.	Type	Fig.	Description	NET
89 H 9	60	SP8403		36"; dual pin plug on each end	2.15
89 H 9				10'; dual pin plug on each end	2.76
89 H 9			L	36"; mike connector one end, pin plug other	
89 H 9			L	72"; mike connector one end, pin plug other	1.09
89 H 9	62	SP8003	M	36"; dual pin plug one end, bare other end	
		SP8010		10'; dual pin plug one end, bare other end	2.26
89 H 9			N	15'; pin plug on each end	1.44
89 H 9			P	15'; pin plug one end, bare other end	11.25
		P7310*	R	10'; phone plug on each end	1.65
		P7320*	R	20'; phone plug on each end	
		P7410*	S	10'; phone plug one end, pin plug other end	1.06
		P7420*		20'; phone plug one end, pin plug other end	79
		P7106*	T	72"; phone plug one end, lugs other end	.91
		P7110* P7120*	Ť	10'; phone plug one end, lugs other end 20'; phone plug one end, lugs other end	1.21
					-
		P6010*	W	10'; pin plug one end, bare other end	.56
		P6020*	W	20'; pin plug one end, bare other end	
71 H 2 71 H 2		E1110	x	72"; mike connector one end, bare other end 10'; mike connector one end, bare other end	
89 H 7		E1125	$\hat{\mathbf{x}}$	25': mike connector one end, bare other end	2.36
71 H 2			Y	72"; male mike conn. one end, female other	1.20
		E912	Y	12'; male mike conn. one end, female other 25'; male mike conn. one end, female other	2 59
41 H 9 89 H 9		E925		10': lugs on each end	.44
94 H 4				20'; lugs on each end	.73

SWITCHCRAFT JACKS AND PLUGS



asy-to-install phono jacks and pin plugs. 3501FR is for rear panel lounting in 3/8" hole—fits panel up to 1/8/4" thick. 3501FP is for front anel mounting in 1/4" hole—fits panel up to 1/8" thick. 3501F and 3501M re std. 2-cond. audio connectors. 371 adapts phono jack for mounting panels up to 11/2" thick; use with 3501FP. 3503 extension jack is iielded, has removable 13/2" O.D. shell with cable clamp. 3502 has 13/2" .D. easy-grip, shielded handle. 3501MC is unshielded, has 3/8" O.D. rell with cable clamp. Av. shog. wt., 3 oz.

ch with table tramp. Av. supg. wt., 5 02.		0 1
H 759. Type 3501FR Jack (Fig. Z)	EACH	.24
H 758. Type 3501FP Jack (Fig. AA)	EACH	.21
H 574. Type 3501F Jack (Fig. BB)	EACH	.09
H 598. Type 371 Jack Adapter (Fig. CC)	EACH	.56
H 778. Type 3503 Extension Jack (Fig. DD)	EACH	.35
H 762. Type 3502 Plug (Fig. EE)	EACH	.29
H 763. Type 3501 MC Plug (Fig. FF)	EACH	.09
H 599. Type 3501 M Plug (Fig. GG)	EACH	
3 (-3777777777777		

G-C ELECTROCRAFT SOLDERLESS PHONO PLUGS

andy right-angle design for fast, positive connecons. Plastic shells. For std. shielded cable with $\frac{1}{6}$. D. Overall length, $1\frac{7}{22}$. Pin dia., $\frac{1}{8}$. Wt., 2 oz.





AMPHENOL TYPE 71 MINIATURE PLUGS

ompact, efficient, high-dielectric plugs. Excellent for translitters, receivers, intercoms, speaker connections, etc. Securely tchored, nickel-plated brass prongs; deeply recessed to prevent orts caused by pulled back insulation. Easily soldered. For bies with up to six conductors. Contacts are polarized to assure oper connections. Fit Amphenol 78-S series miniature sockets and on Amphenol socket page. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Prongs	NET	Stock No.	Mfr's Type	Prongs	NET
) H 177) H 169			.09	40 H 49 40 H 79	71-5S 71-6S	5 6	.12

SHIELDED PHONO PIN PLUG AND JACK



G-C ELECTROCRAFT DOUBLE PHONO JACK

Type 33-800. Two standard phono pin jacks mounted on a common base. Designed to mate with standard phono pin plugs. Size, 1½x1". Four mounting holes. Shpg. wt., 2 oz.

41 H 179......NET EACH .08



G-C MOTOROLA-TYPE PLUG AND JACK

Antenna lead-in plug designed for connecting auto antenna coaxial lead-in cable to auto radio. Split brass shell has serrated edge for secure ground connection. Pin diameter, 1/8". Jack mates with plug; mounts in chassis or cabinet. Takes 15/2" hole. Has 15/6" mtg. centers. Shpg. wt., 2 oz.



Stock No.	Туре	Fig.	Description	EACH
41 H 152 41 H 144	1740 1741	HH	Motorola-Type Plug Motorola-Type Jack	.10

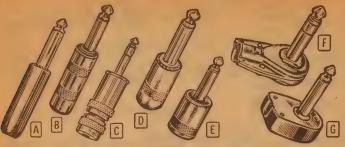
AMPHENOL SOCKETS AND PLUGS

Single-contact sockets and plugs. Have molded phenolic bodies in black or red for quick identification. Sockets mount in ½" hole, and are supplied with Amphenol 2-11 retainer ring. Contacts are recessed ½" to prevent shorts and possibility of shock from exposed metal. Socket body may be used as a feed-through insulator. Single prong plugs match the tip jacks. Av. shpg. wt., 1 oz.



lype	Description	EACH
71-1L 71-1L 71-1M	Plug. Red. For ½" socket. Plug. Black. Same as above. Plug. Red. For ½" socket.	.08
71-1M 71-1S 71-1S	Plug. Black. Same as above. Plug. Red. For 3/42" socket. Plug. Black. Same as above.	.08
78-1L 78-1L 78-1M 78-1M	Socket. Red. For 3/2" plug. Socket. Black. Same as above. Socket. Red. For 1/4" plug. Socket. Black. Same as above.	···
78-1P 78-1P 78-1S 78-1S	Socket. Red. Std080" phone tip. Socket. Black. Same as above. Socket. Red. For ½2" plug. Socket. Black. Same as above.	11.
	71-1L 71-1L 71-1M 71-1M 71-1S 71-1S 71-1S 78-1L 78-1L 78-1M 78-1M 78-1P 78-1P 78-1S	71-1L 71-1L 71-1L 71-1L 71-1L 71-1L 71-1M 71-1M 71-1S

Switchcraft, G-C Plugs and Jacks.



"LITTEL-PLUG" PHONE PLUGS

Small-size phone plugs; fit standard ¼" phone jacks, except *Types S250 and S280, .206" sleeve for S-11 "Littel Jax" and for Bell and Howell equipment; †Type R280 which has short sleeve for Revere recorders. Plugs with solder terminals feature built-in cable clamp; others do not include cable clamp. Metal (shielded) handles are nickel-plated brass. Handles are 111/16" long; 1/2" dia. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Terminals	NET EACH
41 H 553 41 H 554 41 H 611 41 H 614	240 245 250 \$250*	A A A	2 2 2 2	Black Red Black Black	Screw Screw Solder Solder	.44 .44 .41
41 H 612 41 H 555 41 H 616 41 H 573	255 260 267 270	A A A B	2 3 3 2	Red Black Black Metal	Solder Screw Solder Screw	.41 .71 .62 .62
41 H 613 41 H 556 41 H 719 42 H 967 41 H 617	280 R280† S280* 290 297	B B B B	2 2 2 3 3	Metal Metal Metal Metal Metal	Solder Solder Solder Screw Solder	.59 .73 .59 .82

STANDARD PHONE PLUGS

Standard-size 1/4", 2-and 3-conductor type phone plugs to fit all standard jacks. Metal (shielded), red or black molded bakelite handles; 21/6" long, 3/4" diameter, except *1" long. Type 170 is similar to 70, but has 2-piece handle with cable clamp for 1/4" cable. No. 190A is similar to 90, but has same handle as 170. Av. shpg. wt.. 5 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Terminals	NET
41 H 557 41 H 447 41 H 558 41 H 559	40 45 60 70	A A A B	2 2 3 2	Black Red Black Metal	Screw Screw Solder Screw	.44 .44 .62
41 H 560 41 H 561 41 H 562 41 H 563	90* 160* 170 190A	EECC	3 2 2 3	Metal Metal Metal Metal	Solder Screw Screw Solder	.76 .53 .97

"LUG-PLUG" PHONE PLUGS

Low-cost, two-conductor, phone plugs. All fit ¼" jacks except, *fits S-11 Littel-Jax. Have solder terminals. Exterior parts bright nickel plated. Red or black handles are 1 ½" long, ½" diameter. Types 380 and 385 have shielded handles 1" long. Av. wt., 4 oz.

Stock No.	Mfr's Type	Figure	Color	EACH
41 H 564	350	A	Black	.32
41 H 565	355	A	Red	.32
41 H 566	380	D	Metal	.41
41 H 448	385*	D	Metal	.59

FLAT PHONE PLUGS

"I'm" phone plugs featuring flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far and interfere with operation of equipment, prevent installation in tight quarters, etc. Fig. G units have easily removable plastic handle; Fig. F units have shielded steel handle, bright nickel plated. All have screw terminals, except Types 228 and 238 which have solder lug terminals. Types 220 and 225 will accept standard phone tips. Type S230 is commercial version of Military Type PJ-068 (Switchcraft No. 480) plug; has .206" diameter sleeve and tip. Terminals and body are mechanically interlocked. Av. shpp. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Conductors	Handle Color	NET EACH
41 H 621 41 H 567 42 H 968	220 225 228	GGF	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Black Red Metal	.53 .53 .56
41 H 568 41 H 569 42 H 969 42 H 970	230 235 238 5230	GGFG	3 3 3 3 3	Black Red Metal Black	.76 .76 .82

G-C ELECTROCRAFT PLUGS AND JACK



Standard Plugs and Jack. Standard ¼/4 2-conductor phone plugs and jack. Plugs have screw-type terminals and are available with either red or black break-resistant Tenite plastic handles; all metal parts, except screws, have nickel plating. Terminals, insulation, plus body and tip rod are mechanically interlocked to prevent turning. Overall length, 2½ diameter threaded shank ½/2 long; requires only 1 behind panel. Interlocked for dependable operation. Av. shpg. wt., 3 oz.

Stock	Mfr's	Fig.	NET	
No.	Type		EACH	
41 H 017 41 H 018 41 H 019	33-600 33-602 33-690	H	Standard Phone Plug (black) Standard Phone Plug (red) Standard Phone Jack	.38



"LITTEL-JAX" PHONE JACKS

Take standard ¼" phone plugs, except *S-11, which takes S250, S280 and 385 plugs, and *C-12B which takes 480 Military-type. "Littel-Plug" ¾" dia., 1½" overall, with a ¾" dia. threaded shank, ¾" long. L-11 and L-12A have bushing ¾" long. SCC indicates single closed circuit: OC indicates open circuit. Av. shpg. wt., 3 oz.

Stock No	Туре	Diag.	Cond.	Circuit	JAN Type	NET
41 H 622	11	I	2	OC		.24
41 H 623	3 C-11	. I	2	OC	JJ-034	.35
41 H 479		1 I	2	OC 1		.29
41 H 607		I	2 -	OC_		.26
41 H 624	1 12A	II	2	SCC		26
41 H 63	C-12A	II	2	SCC	JJ-089	.44
41 H 469	L-12A	11	2	SCC	1	.32
41 H 632	12B	III	3	OC	1	.32
41 H 633	C-12B*	III "	3	OC	JJ-033	.41
41 H 634	1 13B	IV	3	SCC	1	.44

"TINI-PLUGS" SUB-MINIATURE PHONE PLUGS

with "Tini-Jax", 15%" overall length, 2-conductor, W

Stock	No.	Type	Fig.	Ter.	Handle	NET
41 H	518 519 520	740 745 750	N N	Screw Screw Solder	Black Red Black	.44 .44 .41
41 H	521 522 523	755 770 780	N P P	Solder Screw Solder	Red Shielded Shielded	.41 .62 .59

"EXTENSION JAX" CABLE EXTENSION JACKS

Fit standard 1/4" plugs. 1/16" O.D.; 25/2" long. 121 and 131 1/2" O.D.; 21/2 long. All are open circuit type. Shpg. wt., 3 oz.

Stock No.	Type	Fig.	Cond.	Ter.	Handle	NET
41 H 571	80	S	2	Screw	Black	.68
41 H 718	88	S	2	Solder	Black	.59
41 H 572	120			Screw	Shielded	.91
41 H 473	121 -131	R	2	Solder Solder	Shielded Shielded	.94
41 H 474	830	S	3	Screw	Black	1.18
41 H 717	1230	T	3	Screw	Shielded	1.15

ULTRA-MINIATURIZED PLUGS AND JACK



WIZED PLUGS AND JACK

W ultra-miniaturized plugs featurin same uniformity, dependability and quaity construction as famous "Littel-Plugs and "Tini-Plugs." Microscopic size, on 11/4" long; 1/4" O.D.—1/2s the size of standard plugs! Have nylon insulation betwee tip and sleeve circuits; sleeve terminal tinned brass. Tip and sleeve are nicke plated machined brass. All have sleeve cicuit cable clamp; accommodate cables the sleeve in the commodate cables to the sleeve in the commodate cables to the sleeve in the sleeve i

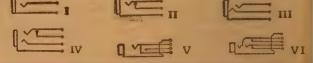
THICK-PANEL PHONE JACKS



Have extra long bushings for use in panels to 11/4" thick. Ideal for wall paneling, hi-fi stallations, etc. Shielded for microphone u Require 1/2" mounting hole. Wt., 2 oz.

42 H 558. Type 151. 2 Conductor, NET. 42 H 559, Type 152B. 3 Conductor, NET.

JACK SCHEMATIC DIAGRAMS

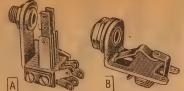


Plugs, Jacks, Test Prods, Binding Posts

MALLORY STANDARD PHONE JACKS

JUNIOR PHONE JACKS

Compact jacks for standard 1/4" phone plugs. Require only 1/6" behind panel. Cadmiumlated frames; nickel-plated brass lank, springs, mtg. hardware. 3/8" a. threaded shank for panels 1/4" lick. Silver contacts. *Conductors in mating plug. Wt., 3 oz.



Stock No.	Mfr's Type	*Cond.	Circuit	Diagram	NET
H 054 H 058 H 052 H 059 H 060	701 702B 703 703B 704B	2 3 2 3 3	Open Open Open Closed-Transfer 1 Closed-Transfer 2	III V IV VI	.45 .57 .60 .60

MIDGET AND INFANT PHONE JACKS

Extremely small "Midget" and "Infant" type jacks for limited-space applications. All take ¼" phone plugs. "Midget" type jacks quire only 1½" mounting space behind panel; "Infant" type requires ily ½" behind panel. Cadmium-plated steel frames with nickel-plated ass shank, springs, and mounting hardware. ½" threaded shank for ounting in panels up to ¼" thick. *Column headed "Cond." indicates imber of conductors in mating plug. All are "Midget" type except A-1 nfant" type jack. (†Not illustrated). Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	*Cond.	Circuit	Diagram	NET
H 050 H 051 H 053 H 056	†A-1 A-2 A-2A A-3A	2 2 2 2 2 2	Open Shorting Closed Closed-Transfer 1	VII II VIII	.39 .48 .57

LONG-FRAME STANDARD PHONE JACKS

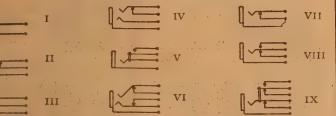




dustrial-type, long-frame jacks offering a variety of switch combinations. All take standard ¼" phone plugs. Types Nos. 1, 2, 2A, and 5 ig. C) are 3½x½½" wide. Mount in panels up to ¼" thick by cans of ¾" diameter threaded shank. XP types (Fig. D) are 3½x½½x¾ wide. Have ½" diameter smooth shank ½" long and mount with the wand nut. *Column headed ''Cond.'' indicates number of conductors mating plug. †Diagram indicates switching arrangement (shown in lumn below). Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	*Cond.	Circuit	† Diagram	NET
H 440 H 441 H 442 H 055	1 2 2A 5	2 2 2 2	Open Shorting Closed Closed & Transfer	VII VII VIX	.45 .57 .57
H 445 H 644 H 446	XP1 XP2B XP3B	2 2 2	Open Closed Transfer	I II VIII	.63 .75 .90

JACK SCHEMATIC DIAGRAMS



SUPERIOR BINDING POSTS

ve-way binding post offers complete insulation. Current capac-7, 30 amperes; working voltage, 1000 volts. Take spade lugs, nana plugs (have jack in top), clip leads, and up to No. 12 re. All current-carrying metal parts are gold-plated for long e, resistance to corrosion, stable electrical contact and faster Idering. Insulated with nylon plastic; metal components are cessed. Mount in ½" holes in panels ½6 to ½" thick. With xagonal thumb nut. Shpg. wt., 4 oz.



itock No.	Туре	Color		Stock No.			NET EACH
H173	DF30YC DF30GNC DF30WTC	Green	.40	4 H 77 4 H 78 4 H 98	DF30BC DF30RC DF30BLC	Black Red Blue	.40

GENERAL RADIO DOUBLE PLUG



-C ELECTROCRAFT DUAL BANANA PLUG



G-C ELECTROCRAFT TEST PRODS, CONNECTORS AND BINDING POSTS



TEST PRODS AND CONNECTORS

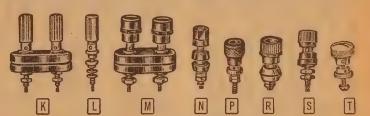
Type 33-376 Solderless Fiber Test Prod. Has 4" bone fiber handle with extra large ¼" inside diameter for heavy-duty wire. Body is nickel-plated brass. Wire fits through handle and body of plug, wraps around screw portion. Secured by knurled collar. Wt., 4 oz. 42 H 258. Red. 42 H 259. Black. NET EACH.

Type 33-384 Phono Needle Test Prod. Brass, nickel-plated body with steel, nickel-plated phono-type needle. Has removable chuck for replacing broken needles. Needle pierces plating or corrosion to insure positive readings. Molded plastic handle, overall length 6" long, 3%" outer diameter. Shpg. wt., 3 oz., 42 H 373. Red. 42 H 374. Type 33-386. Black. EACH...........32

Type 33-378 Heavy-Duty Test Prod. Threaded type with extrasturdy brass, nickel-plated tip. Molded plastic handle, overall length 6\%6" long, \%" outer dia. Fits standard phone tip jacks. 3 oz. 42 H 375. Red. 42 H 376. Black. NET EACH......32

Type 33-138 Self-Gripping Tips. Clip to any terminal, lug, etc. Needle points for piercing insulation. Solderless connection inside 13/6" plastic handle. Shpg. wt., 2 oz. 42 H 271. 33-138. Red. 42 H 272. 33-140. Black. NET EACH....37

Connectors. Molded-plastic angle phone tips for test leads. Solder-less "Trigger Quick" clamps. Shpg. wt., 2 oz. 50 H 725. 33-132. Red. 50 H 736. 33-134. Black. NET EACH.....4



BINDING POSTS

SINDING POSTS

Type 33-276. Dual binding post assembly with metal heads. Accepts single or dual banana plugs, wire and phone tips either forward or sideways. Mounts in two 3/8" holes on 3/4" mounting centers in panels from 1/6" up to 1/4" thick. Body: brass, nickel-plated. Head: captive-type, hex brass, nickel-plated. Washer: molded black styrene. With wraparound solder studs. Has 5/8x13/8" rounded black base. Includes 4 hex nuts, 2 flat washers. Shpg. wt., 4 oz.

Type 33-286. Five-way metal binding post. Accepts banana plug, phone tip, spade lug, alligator clip or wire strand. Mounts in 171" hole in panels from ½6" to ¾" thick. Body: brass, nickel-plated. Head: captive, hex brass nickel-plated. Has wrap-around solder stud With 2 mounting nuts. Shpg. wt., 3 oz.

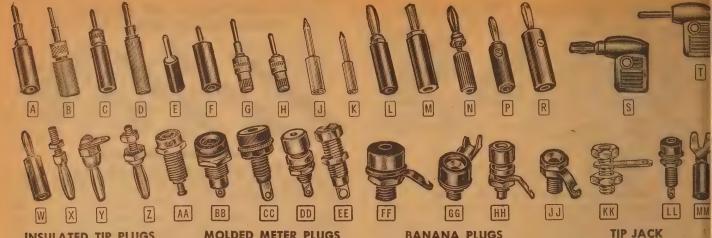
41 H 327. NET

Type 33-288. Dual 5-way binding post assembly with black, insulated filted heads. Accepts single or dual banana plugs. Mounts in two \(\frac{1}{2}6'' \) holes on \(\frac{1}{2}6'' \) mounting centers in panels up to \(\frac{1}{2}6'' \) thick. Has solder stud. \(\frac{1}{2}6x1\) \(\frac{1}{2}6'' \) base. Body: brass, nickel-plated. With 4 mtg. nuts. \(\frac{4}{2}0z \). \(\frac{5}{3} \)

41 H 324. Type 33-292. As above, with 1—black, 1—red head. NET. 65

Multi-Purpose Posts. Rated 2000v., 30 amps. Captive heads. Length shown is total closed. For panels 1/6-1/4" thick. *Locking edge. †Bananaplug jack in head; also accepts phone tip, lug, etc. ‡Grounding types. §Take solder connection to stud. Av. shpg. wt., 2 oz.

Stock No.	Туре	Fig.	Mounting	Length	Color	NET
41 H 368	33-272*†\$	N	1/2"	115/16"	Red	.35
41 H 367	33-274*†§	N	1/2"	115/16"	Black	.35
41 H 330	33-256†‡	\mathbf{P}°	11/64"	11/4"	Red	.18
41 H 335	33-258†‡	P	, 11/64"	11/4"	Black	.18
41 H 388	33-264*†	\mathbf{R}	5/16"	131/64"	Red	.26
41 H 389	33-266*†	R	5/16"	131/64"	Black	.26
41 H 394	33-294R‡§	S	11/64"	19/16"	Red	.25
41 H 395	33-294B‡§	S	11/64"	19/16"	Black	.25
41 H 397	33-2968	S	23/64"	19/16"	Red	.25
41 H 398	33-296§	S	23/64"	19/16"	Black	.25



INSULATED TIP PLUGS

H 547 33-112 H 548 33-114

1-9, NET EACH 18c
10-49, EACH 16¢

Type 33-116. For standard tip jacks. 1½" long. 3 oz.
41 H 260. Red 1-9,
41 H 261. Black NET EA. IOC
10-49, EACH 9¢

F Short Phone Tip Plug. 19c
10-49, EACH 19c
10-41, EACH

33-118 33-120 33-118 33-118 33-118 H 575 H 576 H 577 H 578 H 579 Red Black Yellow Green

NON-INSULATED TIP PLUGS

Type33-146"Senior" Solderless Phone Tip Plug. Has
knurled nut for fastening wire.
115/32" long. Shpg. wt., 2 oz.
41 H 240. 1-9, NET EACH. IOC
10-49, EACH.

MOLDED METER PLUGS

Banana-Type Meter Plug.
Four-leafed phosphor bronze spring; nickel-plated. Tip is 15/2" long. Shpg. wt., 2 oz.

No. Type Color 41 H 467 33-046 41 H 468 33-048 Red Black

No.	_ I ype	Color
41 H 203 41 H 204	33-128 33-130	Red Black
-9, NET EACH	сн	26c

BANANA PLUGS

Insulated, Spring Tip.
Molded Bakelite handle. Wire can be soldered to brass stud which is supplied, or directly into plug. Length, 113/6". Wt., 2 oz.

No.	Type	Color
41 H 593	33-000	Red
41 H 594	33-002	Black
41 H 595	33-000	Yellow
41 H 596	33-000	Green
41 H 597	33-000	Blue

1-9, NET EACH...... 10-49, EACH.....

Insulated, Split Tip. Nickel-plated, cross-slotted tip. Wire can be soldered to brass stud which is supplied. 1¼". 2 oz.

No.	Туре	Color
41 H 428 41 H 427	33-012 33-014	Red Black
41 H 067	33-012 33-012	Yellow Green
41 H 069	33-012	Blue

1-9, NET EACH 18c
10-49, EACH 16c
Normal Type 33-028 Insulated, Spring Tip. Plastic handle. Nickel-plated tip. Fits all standard banana jacks. Four leafed spring provides lasting contact. Length, 2%. Shpg. wt., 2 oz.
41 H 407. Red 1-9,
41 H 408. Black NET EA.32C
10-49, EACH 28c
P Insulated, Spring Tip. Solderless; has set screw in plastic handle. Nickel-plated tip. Length, 11/6. Shpg. wt., 2 oz.
No. Type Color

No.	Туре	Color
41 H 405 41 H 410 41 H 402 41 H 403	33-006 33-008 33-006 33-006	Red Black Yellow Green
41 H 404	33-006	Blue

12/32". Supg. Wt., 2 oz.					
No.	Туре	Color			
41 H 425 41 H 430 41 H 412 41 H 413 41 H 414	33-018 33-020 33-018 33-018 33-018	Red Black Yellow Green Blue			
1-9, NET EACH					

BANANA PLUGS

Type 33-034 All-Metal, Spring Tip. Has solder lug. Four-leafed spring. Nickel-plated. 6-32x½" stud. 115½". 2 oz. 41 H 400.1-9, NET EACH. 15C 10-49, EACH.

Type 33-062 All-Metal, Spring Tip. As above, but internal threads permit use on all size panels. 1". Wt., 2 oz. 41 H 488. 1-9, NET EACH. 15c 10-49, EACH.

Z Spring Tip. Nickel-plated, one-piece construction. 6-32x3/%" stud. Length, 17/2". Wt., 2 oz. 41 H 489. 1-9, NET EACH. 15c 10-49, EACH.

TIP JACKS

AA Miniature Nylon Tip Jacks.

Has silver-plated, beryllium copper contact. Fits in 1/4" hole; mounts in panels up to 1/4" thick.

Overall size, .312x59/4" dia. 2 oz.

No.	Туре	Color		
41 H 495 41 H 496	33-242 33-240	Red Black		
41 H 497	33-240	Yellow		
41 H 498 41 H 499	33-240 33-240	Green Blue		

1-9, NET EACH......26C 10-49, EACH.....24¢

BB Nylon Tip Jack. Completely insulated; has phosphor bronze contact. 11/6x1/2°. 2 oz.

DI CINO CONCULT	/ 10 / 2 -			
No.	Type	Color		
41 H 012	33-216	Red		
41 H 013	33-218	Black		
41 H 014	33-216	Yellow		
41 H 015	33-216	Green		
41 H 016	33-216	Blue		

CC is nickel-plated brass. Jack mounts in \(^{6}\) hole in panels up to \(^{3}\) thick. 1x\(^{1}\) for 2 oz.

No.	Type	Color		
4 H 1 0 4 H 1 5 4 H 432 4 H 433	33-210 33-212 33-210 33-210	Red Black Yellow Green		
41 H 434	33-210	Blue		

Type 33-226 Non-Instance Tip Jack. 1/4" mt hole; 3/4" max. panel thicknes Shpg. wt., 2 oz. 41 H 100.1-9, NET EACH... 10-49, EACH......

BANANA JACKS
Insulated Banana Jac
With solder lug and remo
able insulated top. Requires 5
hole; for panels up to 3/4" thic
21/32" long. Shpg. wt., 2 oz.
No.
Type Colo

41 H 475 41 H 480 41 H 422 41 H 423 41 H 424 33-180 33-182 33-180 33-180 33-180

GG Has molded plastic he Fits 56" mounting hole; for max. panel thickness. 2 oz.

No. Type Col

Colo 41 H 033 41 H 034 41 H 035 41 H 036 41 H 037 33-186 33-186 33-186 33-186 33-186 Red Black Yello Green Blue

COMBINATION JACK

Insulated Combination standard phone tip or banaplugs. Nickel-plated brass book Mounts in ¼" hole; panels to thick. Length, 11½2". Wt., 2 oz.

No. Type Colour H | 130 | 33-194 | Red | 41 | H | 135 | 33-194 | Red | 41 | H | 137 | 33-194 | Gree | 41 | H | 138 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143 | 33-194 | Gree | 41 | H | 143
INSULATED SPADE LUG

Banana Plug To Spa
Lug Adapter. Jack in re
allows insertion of banana ph
1%" long. 3%" O.D. 2 oz.

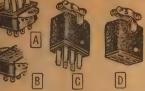
No. Type Colo

41 H 048 33-300 41 H 049 33-302

1-9, NET EACH..... 10-49, EACH.....

Cinch-Jones Strips, Terminals, Plugs, Sockets

SERIES 300 PLUGS AND SOCKETS



Compact units rated 730 volts rms at 10 amps. Metal caps; bakelite body. Phosphor-bronze socket contacts engage both sides of plug contacts. Units are polarized; plugs with 24 or more contacts have positioning pin. Plug contacts are $\frac{5}{22}$ wide by $\frac{3}{4}$ thick. *Round shell; others rectangular. Av. shpg. wt., 3 oz.

TYPE AB FOR CHASSIS MOUNTING

	A PLUGS					D SOCKETS				
ontacts	Sto	ock	No.	Туре	NET	St	ock	No.	Туре	NET
2	40	H	870	P-302-AB*	.24	40	Н	880	S-302-AB*	.27
3	40	H	871	P-303-AB	.30	40	Н	188	S-303-AB	.32
4	40	н	872	P-304-AB	.33	40		882	S-304-AB	.36
6	40	н	873	P-306-AB	.42	40		883	S-306-AB	.45
8	40	H	874	P-308-AB	.49	40	н	884	S-308-AB	.56
10	40	Н	875	P-310-AB	.56	40	Н	885	S-310-AB	.66
12	40	H	876	P-312-AB	.62	40	н	886	S-312-AB	.77
15	40	H	816	P-315-AB	.82	40	н	864	S-315-AB	.96
18	40	н	817	P-318-AB				865	S-318-AB	1.16
21	40	Н	818	P-321-AB	1.29	40	Н	866	S-321-AB	1.43
24 .	40	Н	819	P-324-AB	1.56	40	H	867	S-324-AB	1.70
27	40	н	820	P-327-AB	1.83	40		868	S-327-AB	1.97
30	40	H	821	P-330-AB	2.10	40	H	869	S-330-AB	2.25
33	40	н	822	P-333-AB	2.37	40	Н	877	S-333-AB	2.52

TYPE CCT WITH CABLE CLAMP

	G PLUG	S to the Thirty of	The state of the state of		SOCK	ETS	
ontacts	Stock No.	Туре	NET	Sto	ck No.	Туре	NET
2	40 H 802	P-302-CCT*	.57			S-302-CCT*	.57
3		P-303-CCT	.61			S-303-CCT	.62
4		P-304-CCT				S-304-CCT	.67
6		P-306-CCT				S-306-CCT	.77
8	40 H 808	P-308-CCT	.81	40	H 858	S-308-CCT	.90
10	40 H 810	P-310-CCT	.90			S-310-CCT	1.00
12	40 H 812	P-312-CCT	.99	40 1	H 862	S-312-CCT	1.08
15	40 H 805		1.29	40 1	H 850		1.43
18		P-318-CCT	1.56		H 851	S-318-CCT	1.70
21	40 H 809	P-321-CCT	1.84	40	H 855	S-321-CCT	1.97
24	40 H 811	P-324-CCT	2.17	40	H 857	S-324-CCT	2.33
27	40 H 813	P-327-CCT	2.46	40 1			2.59
30	40 H 814	P-330-CCT	2.87			S-330-CCT	3.00
33	40 H 815	P-333-CCT	3.06	40 1	H 863	S-333-CCT	3.21

SERIES 170 TERMINAL STRIPS



ave extra-heavy double-notched solder terminals. Ideal r industrial users, labs, etc. Molded bakelite insulation. "wide, ¼" thick. Terminals are mounted on ¾" centers. ounting holes are ¾" from center of end terminals. Terminals are 32" brass, tin plated. Av. shpg. wt., 5 oz.

ck No.	Type	Term.	NET	Stock No.	Type	Term.	NET
H 990	1-170	1	.19	40 H 995	6-170	6	.44
H 991	2-170	2	.24	40 H 996	7-170	7	.48
H 992	3-170	3	.28	40 H 997	8-170	8	.52
H 993	4-170	4	.33	40 H 998	9-170	9	.58
H 994	5-170	5	.39	40 H 999	10-170	10	.62

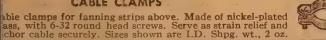
RIES 2000 TERMINAL STRIPS

rminals are made of .019" brass, tin-plated, d spaced on ⁵/₆" centers. Moided bakelite sulation. Mounting brackets are made of dmium-plated steel. Mounting holes at each d of bracket. Av. shpg. wt., 2 oz.



No.	Type			EACH	S	No	ck D.	Mfr's Type	Term	Ctrs.	EACH
H 687 H 688 H 689 H 690	2003 2004	3 4	1" 15/6" 15/3" 115/6"	.09	41	H	693	2006 2008 2010 2012	8 10	27/2"	.15

CABLE CLAMPS



				Stock No.			
H 852 H 853 H 854	CC-161-4 CC-161-6 CC-161-8	1/4" 8/8" 1/2"	.15	41 H 857 41 H 858 41 H 859	CC-161-10 CC-161-12 CC-161-14	5/8" 3/4" 7/8"	.17

SERIES 101 PLUG AND SOCKET

ow-loss plug and socket for high-fre-ency RF use. For coax or shielded 1-nd. Cadmium-plated brass; prong, con-cts, silver-plated. Shpg. wt., 4 oz.



ock No.	Туре	Description	NET	Stock No.	Туре	Description	VET
H 825	P-101	1/2" Plug	.88	40 H 835	S-101	3/8" Socket	.57

SERIES 202 PLUGS AND SOCKETS

admium-plated brass plugs and ckets. Type P-202-CCT is polared. Knurled nut. Type S-202-B cket mtg. holes, No. 30 drill on centers. All units have ¾"-27 read. Type P-202-CCT and 202-CCT THR have cable clam



1202-CC 1	- I HK have cable cla	ump.	Av. snpg. vt., 3 oz.	
tock No.	Type	Fig.	Description	NET
O H 980	P-202-CCT	E	Plug, 2 contact	.81
) H 982	S-202-B	F	Socket, base mounting	.96
) H 981	S-202-CCT-THR	G	Socket, extension	1.09

FANNING STRIPS

For neat, dependable terminal wiring. Insure positive connections. Simplify assembly and disassembly. Last letter in Type No. indicates right or left mounting hole position. Laminated bakelite. .032" cadmium-plated brass. Av. shpg. wt., 3 oz.



Series 160. Fit Series 140 barrier terminals below. Terminals are mounted on 3/2" bakelite, 1/2" wide and on 3/4" centers.

Stock No.	Type	Term.	NET	Stock No.	Туре	Term.	NET
41 H 808	2-160L	2	.10	40 H 956	2-160R		.10
41 H 809	3-160L		.16	40 H 957	3-160R		.16
41 H 812	4-160L		.21	40 H 958	4-160R		.21
41 H 813	5-160L	5	.26	40 H 959	5-160R	5	.26
41 H 814	6-160L	6	.32	40 H 960	6-160R		.32
41 H 817	8-160L	. 8	.42	40 H 961	8-160R	8	.42
41 H 818	10-160L	10	.52	40 H 962	10-160R		.52
41 H 819	12-160L	12	.63	40 H 963	12-160R	12	.63

Series 161. Fit Series 141 barrier terminals below. Terminals are mounted on 36," bakelite. 56" wide and on 7,6" centers.

/32	, / 6			10			
41 H 822	2-161L	2		40 H 964	2-161R	2	11
41 H 823	3-161L	3	.17	40 H 965	3-161R	3	.17
41 H 824	4-161L	4	.21	40 H 966		4	.21
41 H 827	5-161L	5	.27	40 H 967	5-161R	5	.27
41 H 828	6-161L	. 6	.33	40 H 968	6-161R	6	.33
41 H 829	8-161L	8	.42	40 H 969	8-161R	8	.42
			.54	40 H 970			154
41 H 833	12-161L	12	1.63	40 H 971	12-161R	12	.63
		8 10 12		40 H 969		8 10 12	.42

Series 162. Fit Series 142 barrier terminals below. Terminals are mount-

m / 34	, , ,			- 10			marin !
41 H 834	2-162L	2	1.14	40 H 972	2-162R		.14
41 H 843	3-162L	` 3	1.18	40 H 973	3-162R		1 8 1 8
41 H 844	4-162L	4	.24	40 H 974	4-162R	4	.24
41 H 845	5-162L	5	.29	40 H 975	5-162R	5	.29
41 H 846	6-162L	6	.35	40 H 976	6-162R		.35
41 H 847	8-162L	8	.45	40 H 977	8-162R	8	.45
41 H 848	10-162L	10	.56	40 H 978	10-162R	10	.56
41 H 849	12-162L	12	.66	40 H 979	12-162R	12	.66

BARRIER TERMINAL STRIPS

Barriers between each terminal provide increased insula-Barriers between each terminal provide increased insulation. Excellent for industrial and experimental applications. Barriers follow edge of strips and terminate at base. Make a long leakage path and prevent direct shorts caused by frayed wires at the terminals. Base is molded bakelite, with mounting holes at ends. Eyelets and binder screws of nickel-plated brass; terminals of hot tin-finish brass. Barrier-type terminals and fanning strips, when used together, insure positive contact and firm connections. No. 140 terminal strips have 5-40x36" binder head screws, 1/2" metal-to-metal spacing. No. 141 types have 6-32x1/4" binder head screws, 3/2" metal-to-metal spacing. No. 142 types have 8-32x5/6" binder head screws, 3/6" metal-to-metal spacing. Av. shpg, wt., 5 oz.

Series 140. Metal-to-metal spacing over bakelite 1/4" Base 1/8" wide

Stock No.	Mfr's Type	Term.	NET EACH	Stock No.	Mfr's Type	Term.	NET
41 H 580 41 H 800 41 H 801 41 H 803 41 H 807	1-140 2-140 3-140 4-140 5-140	1 2 3 4 5	.18	41 H 806 41 H 584 41 H 585 41 H 586 41 H 587	12-140 13-140 14-140 15-140 16-140	12 13 14 15 16	.84 .90 .98 1.05
41 H 802 41 H 581 41 H 804 41 H 582 41 H 805 41 H 583	6-140 7-140 8-140 9-140 10-140 11-140	6 7 8 9 10 11	.44 .51 .57 .64 .71	41 H 588 41 H 589 41 H 590 41 H 591 41 H 592	17-140 18-140 19-140 20-140 21-140	17 18 19 20 21	1.17 1.24 1.31 1.38 1.44

Series 141. Metal-to-metal spacing over bakelite 3/8". Base 11/8" wide x

72	111g11. /10	Centers. Co	C WILLIA DCIACO I OZ	ramming berryo.	
	H 835	2-141	2 .23 4 H		10 .91
	H 836	3-141 3	3 .3 4 H 4 .40 4 H		12 1.02 14 1.25
41	H 842	5-141	.48 41 H		16 1.42
	H 838 H 839	8-141	6 .56 41 H 8 .85 41 H		18 1.59 20 1.76

Series 142. Metal-to-metal spacing over bakelite $\frac{1}{2}$. Base $\frac{1}{2}$ wide $\frac{1}{2}$ wide $\frac{1}{2}$ wide $\frac{1}{2}$ high. $\frac{1}{2}$ centers. Use with Series 162 fanning strips.

41 H 670 41 H 671 41 H 672	2-142 3-142 4-142			41 H 680 41 H 881 41 H 882	12-142 13-142 14-142	12 13 14	1.32
41 H 673 41 H 674 41 H 676 41 H 678	5-142 6-142 8-142 10-142	5 6 8 10	.69	41 H 883 41 H 884 41 H 886	15-142 16-142 17-142	15 16 17	1.63 1.74 1.83

ADAPTER SOLDER TERMINALS

Adapt barrier strips (listed above) to permit top-side or underside solder connections. Type ¾W permits top-side soldering to barrier terminals; Type Y is for underside solder connections. Made of brass; hot-tin finish. Assure positive solder connections. Fasten securely under binder head screws. Av. shpg. wt., 3 oz.

V	3/4 W/

	TYPE, 3/	W		TYPE Y			
Stock No.	Mir's Type		NET EACH	Stock No.	Mfr's Type		NET
22 H 640 22 H 641	3/4 W-141	141		22 H 269 22 H 270		140 141	.02

Vaco, Thomas and Betts, A-MP Solderless Terminals—Tools _



VACO SOLDERLESS TERMINALS

Terminals form a perfect electrical connection. Of copper alloy for maximum conductivity and minimum voltage drop. *Included in 2195 kit, below. †1/4" male tab. Female tab socket. ‡1/4" angle male tab. #Angle female tab socket. **1/4" male tab

on one end; takes Fig. C 5/2" snap terminal on other end. †† Female tab socket on one end; takes Fig. C 5/2" snap terminal on other. Av. shpg. wt., 8 oz. per package. Packed 100 terminals to a package. Smaller lots listed at bottom of extreme right-hand column.

Carlo Carlo	NON-INSULATED					INSULATED							
Wire Stud Size Size	Lgth.	Fig.	Stock No.	Mfr's No.		PER F 10	PKG.		tack No.	Mfr's Type	NET	PER PK OF 100	G.
22-16 4-6 22-16 4-6 22-16 8-10		A A A	42 H 800 42 H 801 42 H 802	2300* 2301* 2302*		2.18 2,18 2.18	e.	42 42 42	H 828 H 829 H 830	6300 6301 6302	f.	3.97 3.97 3.97	
16-14 4-6 16-14 4-6 16-14 8-10 16-14 12-1/4	27/32"	A A A A	42 H 804 42 H 805 42 H 805 42 H 806	2400* 2401* 2402* 2403		2.18 2.18 2.18 2.71		42 42 42 42	H 831 H 832 H 833 H 834	6400 6401 6402 6403		3.97 3.97 3.97 4.67	
12-10 8-10 12-10 12-1/4 22-16 4-6 16-14 4-6 16-14 8-10	3/4" 29/32" 9/16" 49/64"	A A B B B	42 H 807 42 H 808 42 H 809 42 H 810 42 H 811	2601* 2602*		2.71 3.61 1.94 2.18 2.18		42 42 42 42 42	H 835 H 836 H 837 H 838 H 839	6600 6601 6602	,	4.67 5.73 3.97 3.97 3.97 3.97	
22-16 4-6 16-14 22-16 8-10 16-14 8-10 22-16	5/8" 11/16"	BCDDE	42 H 813 42 H 814 42 H 815 42 H 816	2700 3202 2802 2902 3101		1.69 2.18 2.18 1.69	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42	H 840	6101		3.97	0 0 0
16-14 12-10 22-16 4-8	9/16" 9/16" 5/8"	EEF	42 H 817 42 H 818 42 H 819	3102 3103 3300*		1.69 2.18 1.94		42 42 42	H 842 H 843 H 846	6102 6103 6701		3.97 4.41 3.97	
18-14 18-14 18-14 18-14 adapter	23/32 23/32 9/16 15/32 7/8"	GH	42 H 820 42 H 821 42 H 822 42 H 823 42 H 824	3502#		2.18 2.18 2.18 2.18 3.61		42	H 847	6801		3.97	• • •
adapter adapter adapter	5/16" 7/8" 49/64"	K L M	42 H 825 42 H 826 42 H 827	3701**		3.61 3.30 3.30							

VACO SERVICE KIT

MODEL 2195. Handy kit contains \$5.00 worth of solderless terminals in assorted sizes, in addition to Type 1900 crimpercutter tool described at right. Wide selection lets you make almost any type of lug connection used in radio or TV work. Terminals with * in listing above, are included in kit. Clear plastic case. 83/4x6x13/4". Shpg. wt., 2 lbs. 44 H 427



TERMINAL KIT. Contains assortment of most

45 H 322..... NET 19.95

"SUPER CHAMP" CRIMPING TOOL TYPE 47100-1. Crimps insulated solderless terminals; shears machine screws, measures stud sizes, cuts and strips wire. Of tool steel; has insulated plastic handles. Wt., 11b. 45 H 321..... NET 4.95

TYPE 49835-1. Same as above, but for crimping non-insulated terminals.

GENERAL WIRING TERMINALS. *Insulated terminals—plastic outer sleeves. Wire size, 14 to 16, except †16 to 22. U.L. Approved. Shpg. wt., 8 oz. per pkg. 100 per package.

Stock No.	Fig.	Mfr's No.	Type	Stud	PER PKG.
45 H 301 45 H 302	R	34149*† 34142*†	Ring Ring	8-10 4-6	6.25
45 H 303 45 H 304	E	34070*† 34158*	Butt Ring	4-6	7.50 6.25
45 H 305	R	34161*	Ring	8-10	6.25
45 H 306 45 H 307 45 H 308	SSE	34165*	Spade Spade	4-6 8-10	6.25
45 H 323 45 H 310	SA	34071* 34154*† 33214†	Butt Spade Ring	5-6 8-12	7.50 6.25 4.46
45 H 311 45 H 312	A	34194† 31818†	Ring Butt	4-6	3.91
45 H 313 45 H 314 45 H 315	A	34197 33217 33477	Ring Ring	4-6 8-10	4.46
45 H 316 45 H 317	B	33219 31762†	Spade Spade Knife	8-10	4.99
45 H 3 8 45 H 3 19	W	31763 34846	Knife Plug		10.11
45 H 320			Recep.		6.96

THOMAS AND BETTS TERMINALS

Barrel for staking conductor has ring of spade tongue. Allied can supply any of these terminals (including types not listed below in 5000 lots. Write for prices. *Insulation grip. † Self-insulated, with insulation grip §Insulated connectors. ‡Disconnects. Av wt., 7 oz. per pkg. Packed 100 to a package

Stock	Fig.	Mfr's	Wire	Stud	PKG.		
No.		No.	Size	Size	OF 100		
43 H 756	A	A18-6	22-18	6	3.75		
43 H 757	A	A18-10	22-18	10			
43 H 758	A	B14-6	20-14	6			
43 H 759	A	B14-8	20-14	8	3.75		
43 H 760	A	B14-10	20-14	10			
43 H 761	A	B14-14	20-14	1/4			
43 H 762	A	C10-6	16-10	6	5.20		
43 H 763	A	C10-10	16-10	10			
43 H 764	A	C10-14	16-10	1/4			
43 H 765	N	B14-6G*	16-14	10	4.30		
43 H 766	N	B14-10G*	16-14		4.30		
43 H 767	B	A18-6F	22-18		3.75		
43 H 768	B	B14-10F	20-14	6	3.75		
43 H 769	P	B14-6FG*	16-14		4.30		
43 H 770	P	B14-10FG*	16-14		4.30		
43 H 77 I 43 H 772 43 H 773 43 H 774	R R R	RA18-6† RA18-10† RB14-6† RB14-10†	22-18 22-18 16-14 16-14	10	7.20		
43 H 775 43 H 776 43 H 777 43 H 778 43 H 779	SSS	RA18-6F† RA18-10F† RB14-6F† RB14-8F† RB14-10F†	16-14 16-14	10 6 8	7.20		
43 H 780 43 H 781 43 H 782 43 H 783	EEH	2RA18§ 2RB14§ B14-250F‡ B14-250T‡	22-18 16-14 20-14		6.88 6.88 4.80 4.80		
VACO CRIMPING TOOLS							

CRIMPING TOOLS



MODEL 1906. Designed for insulated solder

MODEL 1900. As above, except for non-insulated solderless terminals. With 3 criming dies. Shpg. wt., 1 lb. 47 H 058..... NET 3.8

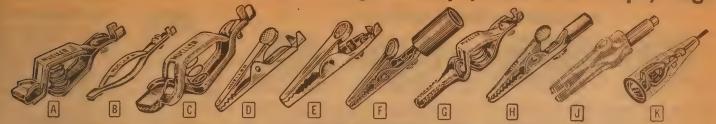
VACO SOLDERLESS TERMINALS



popular types and sizes of Vacterminals in quantities of let than 100. For general-purpos use, appliance repair, radio an TV servicing, repairing aut motive electrical systems, et Provide reliable connection without soldering. Av. shpiwt. per pkg. 3 oz. wt., per pkg., 3 oz.

	tock No.	Fig.	Mfr's No.	Wire Size	Stud Size	Lgth.	Pk: Qt;
44	H 476	X	2300	22-16	4-6	17/37	41
44	H 481	X	2301	22-16	4-6	3/4"	41
44 1	H 482	X	2302	22-16	8-10	3/4"	41
44 1	H 477	X	2400	16-14	4-6	17/50"	41
44 1	H 485	X	2401	16-14	4-6	23/3"	41
44 1	H 486	X	2402	16-14	8-10	23/39"	41
44 1	H 489	X	2502	12-10	8-10	3/4"	32
44 1	H 490	X	2503	12-10	12-1/4	29/82"	24
44 1	H 498	Y	2600	22-16	4-6	9/16"	45
44	H 492	Y	2601	16-14	4-6	49/64"	41
44	H 493	Y	2602	16-14	8-10	49/61"	41
44	H 494	Y	2702	12-10	8-10	49/84"	32
44	H 499	Z	3300	22-16	4-8	5/8"	45
							0

Alligator Clips, Terminal Strips, Lugs



MUELLER CLIPS AND FLEXIBLE INSULATORS

MESH TEETH TEST CLIPS

For general purpose use, *Solid Copper. \$\frac{1}{2}\solid bronze. \$\frac{1}{2}\cdot Cadmium-plated steel. \$\frac{1}{2}\text{Insulation-piercing needle.}\$ Av. shpg. wt., 3 oz.

tock N	0.	Туре	Amps	Size	NET
5 H 00	0	§45	5	11/9"	.07
5 H 00		*45C	10	1 ½"	.14
5 H 01		§48B	10	2″	.11
5 H 07		*48C	. 10	2"	.15
5 H 08	7	‡†50C	10	21/4"	.28

LEAD-PLATED BATTERY CLIPS

For moderately heavy current work, including battery charging, electroplating, and light welding. Av. shpg. wt., 4 oz.

Stock No.	Lype	Amps	Description	Size	NET
45 H 021	24A	25	Positive	21/8"	.23
45 H 022	24A	25	Plain	21/8"	.23
45 H 023	21A	50	Positive	4"	.40
45 H 024	21A	50	Plain	4"	.40
45 H 026	11A	100	Positive	6"	1.06
45 H 027	11A	100	Plain	6"	1.06

SOLID COPPER CLIPS

Heavy-duty, high-conductivity, solid copper clips. Shpg. wts.: 24C, 2 oz.; 21C, 3 oz.; 11C, 7 oz.; 33C, 13 oz.

Stock No.	Type	Amps	Description	Size	NET
45 H 028 45 H 029 45 H 031 45 H 032	24C 24C 21C 21C	50 50 100 100	Positive Plain Positive Plain	2½" 2½" 4½" 4½"	.38 .38 .97
45 H 033 45 H 034 45 H 050	11C 11C	200 200 300	Positive Plain Plain	6" 6" 73/4"	1.81

NON-FERROUS RF TEST CLIP

3-SIDED MESH TEETH CLIPS

Cadmium-plated steel; *solid copper. Jaws open 5/8". Shpg. wt., per 100, 31/4 lbs.

Stock No.	Туре	Amps	Size	NET
45 H 015	§27	20	27/16"	.13
45 H 097	*27C	40	2.7/16"	.23

"MINI-GATOR" CLIPS

Miniaturized—³/₆" jaw opening, ¹¹/₆" O.D. tip. §Cadmium-plated steel; *solid copper. Shpg. wt., per 100, ³/₄ lb.

Stock No.	Туре	Amps	Size	NET
45 H 142	§30	-5	11/6"	.06
45 H 43	*30C	10	11/6"	.07

70 SERIES ALLIGATOR CLIPS

\$\ \text{\$Cadmium-plated steel; *solid copper; }\ \text{\$solder connection; }\ \text{\$tscrew connected. Wt., }\ \text{per 100, 1 lb.}

Sto	ck	No.	Туре	Amps	Size	NET
45 1			70§†	5	111/16"	.07
45		171	70S§‡	5	1 11/16"	.08
45		72	70CS*1	10	1 11/6"	.08

INSULATED BARREL ALLIGATOR CLIPS

Made of cadmium-plated steel, except *solid copper. Jaws open 5/6". Wt., per 100, 11/2 lbs.

Stock No.	Туре	Size Description	NET
45 H 090	60HS *60CHS	2 ¹ / ₃₂ " Red handle 2 ¹ / ₃₂ " Black handle 2 ¹ / ₃₂ " Red handle 2 ¹ / ₃₂ " Black handle	.15

CROCODILE CLIPS

*Solid copper; \$cadmium-plated stee †Phone tip on one jaw. Wt., per 100, 13/4 lb	CI,
45 H 060 §85 2 ½ %" Screw Connection .09	9

ALLIGATOR CLIPS

Steel, except *Solid copper; †Solder type; "S"—screw type. Slim jaws for close work. Jaws open 5/6". Wt., per 100, 1 lb.

Stock No.	Mfr's Type	Size	Description	NET EA.
45 H 200	†60	2"	Fit banana plugs	.08
45 H 065	60S	2"	Fit banana plugs	
45 H 080	*60CS	2"	Fit banana plugs	

INSULATED ALLIGATOR CLIPS

\$\ Cadmium-plated steel; *solid copper type for low resistance. Vinyl plastic insulation, available in either red or black. Size, 21/8". Shpg. wt., 3 oz.

Stock No.	Туре	Amps	Description	NET
45 H 45 45 H 46 45 H 47 45 H 48	§63 *63℃		Red insulator Black insulator Red insulator Black insulator	.19

SLIP-ON INSULATORS FOR CLIPS

Tough, flexible vinyl plastic. High dielectric strength; resistant to oils and grease. Covers entire clip except for end of nose. Av. shpg. wt. per pkg., 5 oz. 2 insulators per pkg.; one red, one black.

Stock Mfr's No. Type		For Use With	NET PER PKG. OF 2
45 H 167 45 H 164 45 H 163 45 H 166 45 H 144	13 23 26 29 32	Series 11 Series 21 Series 24 Series 27 Series 30	1.60 .80 .42 .26
45 H 162 45 H 160 45 H 161 45 H 165 45 H 168 45 H 169	35 47 49 62 87 93	Series 33 Series 45 Series 48, 50 Series 60 Series 85 Series 88	5.86 .12 .18 .10 .12

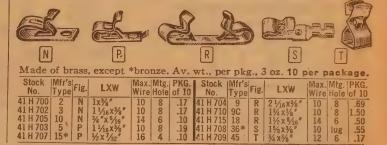
G-C ELECTROCRAFT ALLIGATOR CLIPS

Have plastic insulated handles. Types 33-334, 33-336, 33-330, 33-332 are Fig. L; others are Fig. M. Clips are steel cadnium-plated. Springs naintain firm grip. Types 33-328 and 33-326 are all-insulated o prevent shock or grounding. All accept the plant of the property o



Stock No. Type	Color	Description	NE
41 H 300 33-334 41 H 305 33-336 41 H 168 33-330 41 H 169 33-332	Black Red	With tip jack adapter. With tip jack adapter. Comb. tip & banana jack. Comb. tip & banana jack.	.32
4 H 373 33-328 4 H 374 33-328 4 H 382 33-326 4 H 383 33-326	Black Red		.35

FAHNESTOCK SPRING CONTACT CLIPS



TIE POINTS, TERMINAL STRIPS, SNAPS, STUDS, LUGS, BINDING POSTS AND PLUGS

BB



CINCH-JONES TERMINAL STRIPS

Lug Types. Solder coated steel lugs spaced on 3/8" inters; .140 dia. mounting holes.

JUNE 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Stock No.	Туре	Terminals	NET			
22 H 644	51	1	.02			
22 H 645	52	2				
22 H 646	53E	3				
22 H 647	54	4	.05			
22 H 648	54C	5				
22 H 643	56B	6				

Scre brass ntg. hole	w Typ 3, 7/16" c es. 1/16" tl	e. Sold enters; hick. Av	er coated .136" dia wt., 2 oz.
22 H 64 22 H 65			
22 H 65	17-4	4	.12
22 4 65			.15

NU-WAY SNAPS, STUDS, AND LUGS

Contacts for temporary or permanent connections. Snap, 1/6" dia. x 7/6" L; Stud, 6-32x1/2"; Lug ½2x5/6x3/4". Nickel-plated brass. Snap has solder lug with hole for 6-32 screw. 12 oz. 100 per pkg.

Stock No.	Fig.	Description	PER PKG.
44H 450	Y	Snaps for lugs and studs.	
44H 452	7	and studs. Studs for panel	7.90
		or chassis mtg.	5.00
44 H 45 I	AA	Lugs for flush mounting.	3.00
		mounting.	5.00

BATTERY BINDING POST

BB Heavy-duty. Has separate threaded terminal. 5 oz. 56

TERMINAL LUGS AND PIN PLUGS

Wt., per pkg., 4 oz. 10 per pkg.

Stock No. | Fig. | Description | PER PKG. |
4 | H 777 | DD | Ferminal lugs. | Black, insulated | pin-plug. | 54

MINIATURE TIE-POINTS

Bakelite strips handy for supporting parts in circuit wiring. Tinned terminals on 1/16" phenolic. With ground lug. Av. shpg. wt., per pkg., 8 oz. 10 per pkg.

Stock No.	Terminals	PER PKG.
41 H 510	. 2.	.15
41 H 511 41 H 512	3	21
4 H 5 I 3	5.	.31
41 H 514	-6+	.36

HEAVY-DUTY STRIPS

Designed for heavy-duty use, the terminal strips are constructed of 3½" thick, black bakelite. Have cadmium plated screw terminals and tinned lugs. Ideal for antenna-ground connection on receivers; speaker connections on receivers; power supply terminals, and similar applications. Bakelite base is drilled for 2-hole chassis mounting. Av. shpg. wt., 4 oz.

Stock No.	Terminals	NET
41 H 875	2	.20
41 H 880	3	.27
41 H 885	4	.33
41 H 890	5	.40
4 H 895	. 6	.45
4 H 897	7	.51
4 H 898	8	.58

POPULAR STANDARD SOCKETS





Type MIP. Bakelite body with molded-in steel plate. *Require 1½" hole; mounting centers, 1½". All others have 1½" mounting centers. †Requires 1½" hole; others 1½" hole. \$Mica-filled bakelite. Av. shpg. wt., 4 oz.

Stock No.	Туре	Prongs	NET
40 H 024 40 H 025 40 H 026 40 H 027	77MIP4 77MIP5 77MIP6 77MIP7S	5 6 7 Small	.14
40 H 029 40 H 028 40 H 126 40 H 030	77MIP7L† 77MIP8 88-8* 88-8X*	7 Large Octal Octal Loctal	.19 .16 .17 .22
40 H 034 40 H 032 40 H 033 40 H 069 40 H 070	77MIP8T§ 77MIP9 77MIP11 77MIP12 77MIP20	Octal 9 11 12 20	.19 .18 .21 .21

Type RS. Molded bakelite body with re Type RS. Molded bakene so mounting in size 111/64" hole. Slotted mounting holes to fit centers from 11/2 to 17/6". Av. shpg. wt., 4 oz.

Stock No.	Туре	Prongs	NET
40 H 004 40 H 005 40 H 006 40 H 007	78RS4 78RS5 78RS6 78RS7S	5 6 7 Small	.18 .20 .21
40 H 008 40 H 010 40 H 012 40 H 071	78RS8 78RS8L 78RS9 78RS11	Octal Loctal 9	.20 .27 .23 .25

MIP SOCKET KIT

Type 77-3K. For making any Type MIP socket (above) into floating socket. Includes: 4



Type RSS. Ultra-low-loss steatite replacement sockets. Ruggedly constructed. Adaptable to a wide variety of uses. Excellent for use in high-frequency transmitting equipment, etc. All are universal type; have removable mounting plate with slotted holes 1½ to 1½". Mounting hole, 1½" except 40 H 079, which requires 1½. Av. shpg. wt., 5 oz.

Stock No.	Туре	Prongs	NET
40 H 074	49RSS4	4	.62
40 H 075	49RSS5	5	.64
40 H 076	49RSS6	6	.62
40 H 077	49RSS7S	7 Small	.70
40 H 079	49RSS7L	7 Large	.68
40 H 078	49RSS8	Octal	.62

Type S. High-dielectric mol ed bakelite body. Units are the same as Type RS, but without mounting plate. Mount quickly and easily without screws or rivets on panel of chassis up to .050" thick with retainer ring supplied. Ruggedly built for trouble-free service. Socket may be positioned to line up contacts for convenient wirring. Sockets in table below all require 111/64" mounting hole. Av. shpg. wt., 4 oz.

Stock No.	Туре	Prongs	NET
40 H 054 40 H 055 40 H 056 40 H 057	78S4 78S5 78S6 78S7S	5 6 7 Small	.13 .14 .16 .17
40 H 058 40 H 062 40 H 060 40 H 072	78S8 78S9 78S8L 78S11	Octal 9 Loctal 11	.15 .18 .22 .20

grommets, 2 mtg. screws, nuts, washers. 1 oz.

MINIATURE SOCKETS AND SHIELDS

BAKELITE SOCKETS

Miniature sockets and shields. 147 series mount in \%" hole; \%" mtg. ctrs., with \%" holes. 59 series mount in \%" hole and have 1\%" mtg. ctrs. with .095" holes (except 40 H 103, .125"). \\$Black bakelite. \†Mica-filled. Shpg. wt., 5 oz.

E WITHOUT TUBE SHIELD BASE

Stock No.	Туре	Prongs	NET
40 H 191 40 H 199 40 H 193 40 H 167	‡147-500 †147-505 ‡59-409 †59-410	7 7 9 9	.21 .22 .27 .26

F WITH TUBE SHIELD BASE

Stock No.	Туре	Prongs	NET
40 H 194	‡147-905	7	.28
40 H 175	†147-913 †59-403		.28
40 H 103 40 H 176	+59-407	9	.36
40 H 196	159-406	9	.32

G TUBE SHIELDS For 7-Contact Sockets

Stock No.	Туре	Height	NET
40 H 197 40 H 198	5-401 5-402	13/8"	.16

For 9-Contact Sockets

Stock No.	Туре	Height	NET
40 H 188	5-405	1 ½"	.19
40 H 189	5-408	1 15/6"	
40 H 190	5-409	2 3/8"	









H RETAINER RING SOCKETS

Mount ir 5/4" round or "D" shaped hole with retainer rings provided. May be used with Amphenol Series 91-MPM plugs. 5 oz.

BLACK BAKELITE

Stock No.	Туре	Prongs	NET
40 H 131 40 H 115 40 H 122 40 H 130 40 H 120	78-S3S 78-S4S 78-S5S 78-S6S 78-7P	3 4 5 6 7	.09 .12 .16 .17

MICA-FILLED

40 H | 24 | 78-7PT |

TYPE "S" MINIATURE SOCKETS

Full-size bakelite body with miniature 7 or 9-pin contacts. Ideal for recircuiting. Mounts in std. 11/4/" chassis hole with rering (supplied). tainer ri Wt., 5 oz.



SPECIAL OCTAL AND MAGNAL SOCKETS







Type 77-MIP8FK Floating Octal. Live-rubber grommets in enlarged mounting holes of sturdy steel plate. Mounts in 1½" centers. Supplied with grommets, mtg. screws, nuts, washers. Shpg. wt., 5 oz.

40 H 043. NET EACH.......32

Type 168-015 Saddle Octal. Designed for below-chassis mounting. Sturdy steel plate below-chassis mounting. Sturdy steel plate is molded directly into bakelite body—cannot come loose or vibrate. For 1" hole; "/" mounting holes on 1%" centers. Stage. wt., 5 02.

ACS SOCKET SHELL

Type 23-15. Lightweight aluminum shell for Type RSS, RS and S sockets at left (except Type 49RSS, 7L). Permits extension of sockets 13/6" above or below chassis surface. Body dia., 111/16"; 23/16" base. Requires 13/4" mounting hole. Socket not supplied. Shpg. wt., 5.02.

plied. Shpg. wt., 5 oz. 40 H 127. NET.....

HIGH-VOLTAGE OCTAL SOCKET



HIGH-VOLTAGE 4-CONTACT SOCKET



Type 146-812. Four contact, above chassis mounting plate type socked for high voltage applications Quick heat dissipation is aided by steel cadmium plated mtg. plate Two '%" mtg. holes on 2'%" mtg ctrs. Requires 1'4" dia. mtg. hole Shpg. wt., 4 oz. 40 H 089. NET 2.27

HIGH-VOLTAGE 4-CONTACT SAFETY SOCKET



Type 77A-4T. For 4-pir hi-voltage rectifiers and other types with base dia of 1.156°. Requires 1½ hole with ½2″ mtg. hole on 1½ centers. Socket is recessed in shell. 5 oz. ...60

TV TUBE SOCKET



BARRIER-TYPE OCTAL **RELAY SOCKETS**



Maximum EIA working voltage, 2000 DC. Bronz cloverleaf removable con cloverleaf removable contacts rated 8 amps each. In terelectrode capacitance, 2. mmf. *Includes 4 threade inserts for use as tie points. Size: 636,x115/6.

No. Type 1 March 1976.

No.	Type	Mount	NET
40 H 180	146-103	Top	1.44
40 H 181	146-104*	Top	1.76
40 H 080	146-203	Bottom	1.44
40 H 087	146-204*	Bottom	1.76

NEW 11-CONTACT RELAY SOCKET



Type 146-817. For current relay requirements of 600 VRM @ 10 amps. Socketype replaceable contacts on 3/4" circle Two .156" mtg. hole on 37/6" centers; 4 tpts. 1 lb. pts. 1 lb. 42 H 593 ... 3.6

NEW 14-CONTACT RELAY SOCKET



Type 59-106. For standard 14-contact relays and Amphenol hermetical scaled headers. Require 3/4" hole with 1/8" mt holes on 11/8" centers. Wide 4 of 4 of 5 40 H 000. NET3

NEW 20-CONTACT RELAY SOCKET

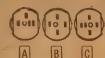


Type 59-470. Reksocket with 20 heatreated berylliu copper contacts at turret terminals. R quires 1" hole at two .144" mtg. hol on 1.406" center

Allied Maintains the World's Largest Stocks of Electronic Componen

ELCO TRANSISTOR AND TUBE SOCKETS

TRANSISTOR SOCKETS



ub-miniature mica ockets eliminate loss and damage from dict soldering of transtor pins. For 3-pin ansistors with inne pins or 3 and 4-in transistors with ns on .200" diam. circle of any configuration. onform to MIL-P-14. *Ring only for 3304, 307, 3313. †PC, mounting for printed circuits; IR, mounting ring. Av. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	†Mtg.	NET EACH
H 092 H H 238 H H 094 H H 244	3301 3303 3305 3308	A A A B	Saddle PC PC PC	.35 .27 .30
H 093 H H 243 H H 249 H H 095	3304 3307 3313 757	A B C *	MR MR MR MR	.26 .26 .29 .03

RINTED CIRCUIT SOCKETS

xcellent selection of sub-minia-re, mica filled phenolic sockets r use on printed circuit boards. or transistors and sub-miniature pe tubes. All contacts gold flash-l. Av. shpg. wt., 2 oz.



tock	No.	Туре	Prongs	EACH
	062	786BC 805BC	3 4	.18

ETAINER MOUNT SOCKETS

.-line sockets of mica filled phe-plic. For transistors and submini-ure tubes. Contacts are gold ished. Require retainers listed. v. shog. wt. 3 oz.



. 612pg. 110., 0 02.						
tock No.	Туре	Prongs	EACH			
I H 074	799BC	3	.16			
H 080	803BC	. 4	.17			

etainer Ring For Above Sockets. Designed r Elco Type 799BC and 803BC transistor and miniature tube sockets above. 2 oz. 03 H 097. NET EACH.......03

EW POMONA TEST SOCKET TUBE ADAPTERS



TUBE ADAPTERS

or measuring voltage, sistance, audio and deo without tracing rouits from bottom of assis. TVS-7, TVS-8, VS-9 feature extendtest tabs; low-loss ica-filled molded phelic construction per IL-M-14. Voltage eakdown elements exed 1700 V., AC or C. Types 1447, 1449

zes: .65" dia. x 12½2", and .75" dia. x 12½2" spectively), are for use with tuners having ptive or telescoping tube shields—shields or vers do not have to be removed. Voltage eakdown exceeds 1800 V., AC or DC. Av. pg. wt., 5 oz.

ock No. Type Pins Description EACH

ock No.	Туре	Pins	Description	EACH
H 035 H 036 H 037 H 038 H 039	TVS-8 TVS-9 1447	7 8 9 7 9	Miniature Octal Miniature Miniature Miniature	1.62 1.71 1.82 1.82 1.91

JAMES MILLEN TUBE SOCKETS

ecommended for UHF use. gher steatite body gives ager leakage path between ntacts. Mounting centers, 4". Shpg. wt., 4 oz.



tock No.	Туре	Prongs	EACH	
2 H 060	33004	4		
2 H 061	33005	5	10	
2 H 062	33006	6	.00	
2 H 064	33008	1 8	1	

VECTOR TUBE ADAPTER TEST KIT

rpe T-789. For making volte, resistance and wave form casurements from tube side of assis. Contains 1—7-pin, 1—pin miniature, and 1 octal apter—fit into tube shield sees. ½7 diam. holes for test od points. 6 oz. H 210. NET 5.78



E. F. JOHNSON TUBE SOCKETS











SPECIAL SOCKET TYPES

Type 122-105-100. 7-pin VHF steatite socket for 5894, 6524, 6252 tubes. Ventilated aluminum shell. Shpg. wt., 10 oz. 1.60

Type 122-244-1. 4-pin steatite for "super jumbo" tubes. Takes 8008, BR6, SC22, 5C22, GL146, GL152, GL159, GL169, RO585, RH507, SR50, SR53, SK60, FG105. Wt., ½ lb. 73 H 997. NET.

BAYONET SOCKETS

Type 123-209-1. For tubes with 4 prong "UX" base; 852, 860, 866 tubes, etc. 4 mtg. holes, 2\%" centers. Wt., 10 oz.

Type 123-211-1. Porcelain base socket for use with "jumbo"-type 4-pin tubes. Takes 211, 872 tubes, etc. Mounting centers are spaced 211/6". Shpg. wt., 1 lb. 73 H 191. NET. 2.15

STANDARD WAFERS

Steatite wafer sockets designed to meet general requirements of receiving, low-power transmitting tubes. All types have cadmium-plated contacts. Bases are glazed steatite. Size, 2½/6″x11½/6″. Sockets have 13¼″ mounting centers. Shpg. wt., 4 oz.



Stock No.	Mfr's Type	Prongs	NET
73 H 238	122-224-1	4	.76
73 H 239 73 H 241	122-225-1	5	1.00
73 H 243	122-228-1	Octal	1.05

VECTOR SOCKETS

PLUG-IN UNITS

Consist of standard tube socket, tubular terminal post, octal plug and shield can. Can sizes: B10M and B10N, 13/8" square, 2½" long; C10M and C10N, 2" square, 2½" long. Av. shpg. wt., 5 oz.



40 H 237 B10M 7-pin Miniature 1.9 40 H 238 B10N 9-pin Noval 1.9	1
40 H 241 C10M 7-pin Miniature 2.2 40 H 239 C10N 9-pin Noval 2.2	1

SOCKET-TURRETS

Terminal structures for use in single or multi-stage sub-assemblies. Components mount on phenolic form. Turrets are ½ diam. Octal units mount in 1" hole; miniatures, 5½" hole. Av. shpg. wt., 3 oz.



21/3" Turret. Ha spaced 13/8" apart. Has 9 terminals in two rings

000011 110.		JOOKEL .	14 -
40 H 211	10-0-9T	Octal	•63
2" Turrets.	9 termina	ls in two rings,	l" apart.
40 H 212 40 H 217	8-0-9T 8-M-9T	Octal 7-Pin Min.	.60

11/2" Turrets. Have 6 terminals in one ring.

40 H 213	Octal	.54
40 H 218	7-Pin Min.	.60
40 H 234	9-Pin Noval	.63

Shield Bases. For miniature sockets above. Fasten above chassis on socket mtg. centers. Use with standard bayonet type shield. 2 oz.

Stock No.		Description	NET
40 H 235		For 7-pin sockets	.09
40 H 236	S9	For 9-pin sockets	.09

RAY-PAR ANTI-CORONA SOCKET



NEW EBY NUVISTOR ADAPTER

Type 9320. This adapter permits testing of the new 7 pin nuvistor tubes using existing test equipment. Simply plug adapter into standard octal socket. Includes easy-to-follow instruction sheet. Shpg. wt., 8 oz. 41 H 359. NET......2.06



EBY SOCKETS



Above-Chassis Type, One-piece molded bake-lite construction, for top-of-chassis or panel mounting. Contact designations molded in base. Mounting centers, 111/6". Shpg. wt., 2 oz.

Stock No.	Туре	Prongs	EACH
40 H 254	12-4	4	.38
40 H 255	12-5	5	.43
40 H 256	12-6	6	.44
40 H 261	12-7-N-O	7L & 7S	.46
40 H 258	12-8	Octal	.51

EBY BLACK-AND-WHITE CRT TEST SOCKET ADAPTER

Type 1000. TV picture tube socket adapter, easy to install or remove. External lugs permit checking all CRT pin voltages while set is in operation. No wiring or soldering required. Wt., 3 oz



NEW EBY COLOR CRT TEST SOCKET ADAPTER

Type CA-1. Test point adapter/for all color cathode ray tubes. The CA-1 allows any serviceman to test color picture tubes without removing the picture tube or chassis from the cabinet. Easily plugs onto the rear of CRT for testing of the tube under actual operating conditions. Wt. 802. 5.88



NEW EBY NOVAR ADAPTER

Type 9330. Keep your servicing equipment up-to-date by adding this new adapter. Permits testing of new 9-pin Novar tubes on existing test equipment. Each adapter supplied with complete instructions showing use with existing test equipment. Shpg. wt. 5 oz. 41 H 399. NET....



2.06

Tube Sockets, Plugs, Shields, Caps and Hold-Downs

CINCH-JONES PLUGS AND SOCKETS









Octal Sockets With 15%" Mounting Centers. Molded from high dielectric black celite. Brass contacts and steel pressed-on dle with 4 ground lugs. Mount in 1" chassis e. 8AB is general-purpose type; 8AM is for IF applications. 2 oz.

Stock No.	Туре	Description	NET
22 H 579 22 H 580		Black Bakelite Mica-filled	.09

Octal Sockets With 1½" Mounting Centers. Similar to above, have clinch-on saddle with 4 ground lugs; mount in 1½" hole. Ceramic unit for UHF use. Av. shpg. wt., 2 oz.

22 H 22 H	583	8EM	Black Bakelite Mica-filled	.10
22 H	582	8EC	Ceramic	.45

Miniature Sockets—Bottom Mounting. Molded bakelite. Solder-coated brass contacts; cadmium plated steel saddle. 7EB and 7EM mount in 5% hole; 7% mtg. centers. 9EB and 9EM mount in 76 hole; 1 % centers. 2 oz.

Stock No.	Туре	Fig.	Description	NET
22 H 567	7EB		7-pin, bakelite	.09
22 H 568	7EM		7-pin, mica-filled	
22 H 594	9EB		9-pin, bakelite	.12
22 H 595	9EM	\mathbf{D}	9-pin, mica-filled	.14

Miniature Sockets—Top Mounting, Molded bakelite, Brass contacts, 7AB1 and 7AM1 mount in 5%" hole; 7%" centers, 9AB and 9AM mount in 3%" hole: 11%" centers, 2 oz.

Stock No.	Туре	Fig.	Description	NET
22 H 566 22 H 592	7AM1 9AB	D	7-pin, bakelite 7-pin, mica-filled 9-pin, bakelite 9-pin, mica-filled	.12

Ring-Mounting Octal Sockets, Molded sockets with solder-coated brass contacts. Mount in 111/64" keyed hole. Retainer ring supplied. *Chassis thickness. Av. shpg. wt., 2 oz.

Stock No.	Type	Size*	Description	MEI
22 H 584	8R1	1/16"	Black bakelite	.18
22 H 586	8R3	1/16"	Mica-filled	.22
22 H 587	8R4	3/32"	Black bakelite	
22 H 588	8R5	3/32"	Mica-filled	.22
22 H 585	8R2	1/8"	Black bakelite	
22 H 589	8R6.	1/8"	Mica-filled	.22

22 H 590. Type 8 RO Retainer Ring. Extra rings for above sockets. Wt., 1 oz. NET....04 22 H 591. Type 8AP Adapter Plate. For use with ring sockets when screw or rivet mounting is required. Slotted 1½" to 1½" mounting centers; 1½" keyed hole. 1 oz. NET.........04

WAFER-TYPE TUBE SOCKETS



Laminated-bakelite tut sockets widely used radio, TV, mobile unit etc. Solder-coated bra contacts. *With cent shield. Av. wt., 2 oz.

Stock No.	Туре	Centers	Pins	NET
22 H 622	7W2A*	7/8"	7 (min.)	
22 H 623	7WL2* 7WL4*		7 (min.) 7 (min.)	
22 H 625	8W1	15/16"	8	.08
22 H 626	8W2	11/2"	8:	.08
22 H 627 22 H 628	9W1* 9W2*		9 (min.) 9 (min.)	



TYPE 8PB 8-CONTACT PLUG

For making up to 8 connections tween chassis. Molded black bak lite. Fits any octal socket. Use wi 16F shield, (below). Wt., 2 oz. 40 H 846. NET.....

Type 11PB 11-Contact Plug. Same as above but with 11 contacts. Molded black bakeli construction. Fits 11-contact socket, Ty 11RB listed below. Use with Type 16F snapshield, below. Shpg. wt., 2 oz.

TYPE 16F STEEL SNAP-ON SHIELD

TYPE 11RB 11-CONTACT SOCKET



Use with 11PB 11-contact pl (above). Precision molded fro high-dielectric, black bakeli Mount on 1/6" thick chassis usi retaining ring. Use with 16F sno on shield (above) on extensicables. Shpg. wt., 2 oz. 40 H 849, NET.

CHASSIS AC SOCKET



Type 2 R2. Molded, black bal lite. Rated: 15 amp. at 110 v; amp at 250 v. Solder-lug tern nals. Mounts in 3/ax3/4" hole. F %4" dia. mtg. holes on 11/a" cters. Size, 11/2x1/2". 2 oz.

SUB-MINIATURE TUBE AND TRANSISTOR SOCKETS

Sub-Miniature Types. For hearing aids, miniature radios, etc. Mica-filled bakelite with silver-plated contacts. 4-prong miniature tubes and G.E. G11 and G11A transistors fit 2H5. *Mounting ring for Type 8SM. Av. shpg. wt., 2 oz.

Stock No.	Type Pins	Fig.	NET	Stock	No.	Туре	Pins	Fig.	NET
40 H 294 40 H 245 22 H 613 40 H 247	2H3 3 2H5 5	F	.20	40 H 22 H	242		8	H	.42 .54 .02

Transistor Types. 5-contact sockets; Type 5PC (Fig. K) for printed circuits; 5WC (Fig. L) for wired circuits. 2 oz.

Stock No. Type	Sizo	INFT	IStock No.	Tyne	Size	NET
40 H 249 5WC	3/0 x7/20 x17/41	.38	40 H 252	5PC	13/32X1764X1/2"	.39

POMONA SOCKET SAVERS



Rigid-mounting socket savers durable phenolic materials with los life metal contacts. Protect ye tube tester sockets from wear of peated tube insertions. Plugs in original socket. 3 oz.

Stock No.			NΕ
40 H 669	SS-8	For 7-pin miniature For 8-pin octal For 9-pin miniature	1./

TUBE SHIELDS AND CAPS

A complete selection of tube caps and shields for receiving and transmitting tubes. Shields are used extensively with low level, high gain audio amplifier stages to eliminate hum pickup. Shields also prevent oscillation in high gain RF amplifiers and radiation in oscillator and converter tubes. Shields and ground clips (Figs. M, N, and P), for both 7-pin miniature and bantam type tubes are listed. A variety of tube caps is available providing positive, depend-

able contact for each particular use. Choose from plastic, metallic and ceramic types. Listing includes heat-dissipating types—fins have large surface area for rapid radiation of heat; have set screw (Fig. S) for secure connection. Millen Type 36011 (Fig. W), gives tighter-than-normal grip for use in industrial and mobile applications; self-locking, has snap-button release. *For use with wire leads. Others are cap type. Shpg. wt. per pkg., 3 oz.

Stock No.	Fig.	Description and Application	Per Pkg.	Per Pkg.
42H510 42H511 42H512	M N P	Goat G1332-3 tube shield for GT tubes, 25/16" high, 1/8" hole. Goat G1332-5A. Same as 42 H 510, but with closed top. Goat G1700 tube shield for min. T5½ with G1710-B base. 55/4x11/8".	4 4 3	.25 .25 .14
42H5I4 42H5I5	R R	National Type 24. For standard tubes, ¾" dia. grid caps. National Type 8. For octal tubes, ¼" diameter grid caps.	5 5	.20
42H 508		(Not illustrated). Goat G1004-2 ground clip for grounding shields on octal tubes.	. 10 .	- 11
42H 506		(Not illustrated). Goat G1307-2 double clip for octal base tubes (fits on tube socket).	5	.07
42H 093 42H 096 73H 007	S* S	Eimac HR-3 heat dissipating cap for 35T, 250TH, etc. 1/6" hole. Eimac HR-6 heat dissipating cap for 4-250A, 304TH, etc. 2364" hole. Bud TC-487 heat dissipating cap for UH50, HK24, 304B, 829B, 832A, 834.	1	1.20
73H 007	S	$\frac{1}{16^{\circ}}$ hole. Bud TC-489 heat dissipating cap for 35T, HK54, etc. $\frac{5}{16^{\circ}}$ hole.	1	.67 .67
73 H 002	S	Bud TC-1920 heat dissipating cap for 100T, 807, 4-125A, 2-150D, 250TH, 4-250A, 6146, 1625, 4D32, 807W, 1B3GT, etc. 3/2" hole.	1	.67
73 H 003	S	Bud TC-1921 heat dissipating cap for 866, T125, HF100, 450TH, 750TH, 809, 811, 812, 813, 828, 866, etc. %6" hole.	1 1	₹ .78
72H 082 71H 246	W	Millen 36011 industrial snap-action plate cap. %16". National SPP-9 ceramic-insulated grid and plate cap. %16".	1	.75
42H518 72H069	R	National Type 12 grid and plate cap. 9/16". Millen Type 36002 steatite tube cap, 3/8".	3	.21
72H 140 72H 068	X	Millen Type 36004 steatite tube cap, ¼". Millen 36001 steatite plate cap for 866, etc. %6".	1	.24

POMONA 110° CONVERSION **ADAPTERS**



Model 110-S. Sylvania Type. I duodecal test equipment. No rew ing—plug in for 110° socket. F. 820° pin circle dia. 7 pins, .00′ dia. Wt., 4 oz. 40 H 683. NET.

Model 110-R. RCA Type. As above, but pin circle dia. 8 pins, .04° dia. Wt., 5 oz. 40 H 684. NET.

"MINI-SPRING" TUBE HOLD-DOWN



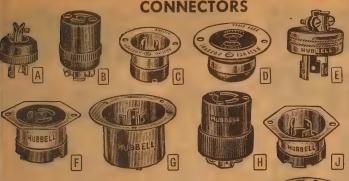
Hold tubes securely in pla Prevent breakage and assi greater stability. Valuable whi tubes are mounted upside do or in a horizontal position; a excellent for equipment subju-to vibration and shock. For 7 9 pin miniature tubes. Mou 9 pin miniature tubes. Mot with nut and bolt, or may be stalled with rivet. Average sh; wt., 3 oz. 3 per package.

ock No.	Height	For Tubes	Per PI
H 121	23/8"	6AQ5, 6X4, 35B5, 35W4, 50B5, etc.	
H 122	17/8"	1R5, 6AG5, 6AT6, 6BE6, 6C4, etc.	.26
H 123	11/2"	6AJ5,6AK5,6AL5, 6AS6, 6N4, etc.	.20
H 124		12AT7,12AU7,etc.	

Si 4 4

Connectors, Plugs and Sockets

HARVEY HUBBELL "TWIST-LOCK" CONNECTORS



A wide selection of heavy-duty electrical connectors for industrial or home use. Available in both midget and standard sizes. Feature "Twist Lock" design for fast, sure connections. Just plug connectors together and twist for a locked connection that cannot be accidentally pulled apart. Ideal for extension cables, electric tools, motors, and other electrical equipment subject to vibration. Conform to National Electrical Code Standard. Av. shpg. wt., 3 oz.



MIDGET-SIZE CONNECTORS 2-WIRE NON-POLARIZED TYPES

Type 7428 male cap and Type 7427 female connector are of durable brown bakelite with metal cable clamps for ½ 0.D. cords. Type 7466 male base and Type 7468 female base are of bakelite with metal housings. Rated 10 amps at 250 volts, or 15 amps at 125 volts.

Stock No.	Mfr's Type	Fig.	Description	NET EACH
4 H 282 4 H 283 4 H 284 4 H 287	7428 7427 7466 7468	A B C D	Male Cap Female Connector Male Base Female Base	.44 .80 .94

3-WIRE POLARIZED TYPES

As above but for 3-conductor cables. Insulation is black bakelite. Clamps accept cords from .281 to .421" O.D. Polarization prevents wrong connection. Rated 10 amps at 250 v., or 15 amps at 115 v.

41 H 288	7485	A	Male Cap	1.03
41 H 289	7484	B	Female Connector	1.49
41 H 290	7486	C	Male Base	1.32
41 H 291	7487	D .	Female Base	1.61

STANDARD SIZE CONNECTORS 3-WIRE POLARIZED TYPES

Type 7572 male cap, Type 7556 male base and Type 7557 female base have rust-resistant metal housings. Type 7555 female connector is bakelite. Clamps take cords from .296 to .562" O.D. All are rated 10 amps at 250 volts, or 15 amps at 125 volts.

Stock No.	Mfr's Type	Fig.	Description	NET
41 H 292	7572	E	Male Cap	1.32
41 H 293	7555	H	Female Connector	1.94
41 H 294	7556	J	Male Base	1.61
41 H 295	7557	F	Female Base	1.78

HEAVY-DUTY 3-WIRE POLARIZED TYPES

Type 7311 cap, Type 7327 male base and Type 7328 female base have metal housings. Type 7313 connector is bakelite. Clamps take .437 to .750" O.D. cords. Rated 20 amps at 250 v., 10 amps at 600 v. *Armored.

	0.2.044		CHARLES ON O	and the state of t	
41	H 296 H 297 H 298 H 299	7311 7313 7327 7328	E H G K	*Male Cap Female Connector Male Base Female Base	1.76 2.71 2.09 3.21

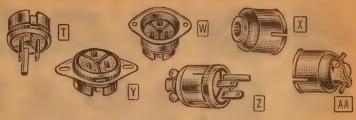
AH&H MIDGET CONNECTORS



Midget 2-prong cord connectors and receptacles. Especially suited for applications where space is at a premium. Types illustrated in Figures L and M have housings of durable molded bakelite. Others have rustresistant metal housings and insulation of bakelite. All units are rated at 10 amperes at 250 volts. A 1" diameter hole is required for all receptacles. Contact spacing is ½". Receptacle terminals are exposed. All units have threaded covers. Types 80326 and 80328 are furnished with plate for screws. Types 80327 and 80329 are furnished with plate and lock ring. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Description	NET
52 H 721 52 H 722 52 H 725 52 H 726 52 H 727 52 H 728	80324 80325 80326 80328 80327 80329	L M N P R	Male cable connector Female cable connector Female flush receptacle Male flush receptacle Female flush receptacle Male flush receptacle	.67 .80 .89 1.33

AMPHENOL PLUGS AND SOCKETS



STANDARD AND GROUNDING-TYPE AC PLUGS AND SOCKETS

61 Series is 2-pole; 160 Series is 2-pole with grounding lug, recommended where grounding is required. Black phenolic. Rated 15 amps at 120 v., AC/DC; 10 amps at 220 v. All are U.L. Approved except Types 160-10 and 160-11, which must be grounded after mounting. Av. shpg. wt., 3 cz.

Retainer Ring Mounting Types. For mounting in 11½6" keyed hole in chassis up to ½6" thick. 61-M is standard type; 61-F is universal type. *Includes prong and third terminal for ground wire. All are 2-pole.

Stock No.	Туре						
40 H 675 40 H 677		Male Female	.29	42 H 522 42 H 523	160-10* 160-11*	Female Male	1.10

Mounting Plate Types. All require $1\frac{1}{2}$ mtg. holes and have $\frac{5}{2}$ slotted holes on $1\frac{1}{2}$ to $1\frac{7}{6}$ centers except Type 61-MIP-61F which requires $1\frac{3}{6}$ mtg. hole and has $\frac{5}{2}$ holes on $1\frac{1}{2}$ centers. Types 61-M1 and 61-F1 have removable mtg. plates. *With terminal for ground wire. All 2-pole.

40 H 680 61-M1	Male	33142 H	525 160-3*	Male I	1.12
	TATGLE		222 100-0	TATOTIC	I o E des
40 H 682 61-F1	Female	32140 H	085 61-MIP-	1	
		.52 40 11	OOD OT MILL		
42 H 524 160-2*	Tamala	721	61F	Tamala	.28
42 11 3241100-2	Tremaie !	./ 61	d . I OIL I	L'emaie	.20

Type 61-61 Recessed Shell. Shell for converting Type 61, 86 and 160 connectors to recessed mtg. types (listed below). Fits 17/6'' hole; two 5/2'' screw holes on 13/4'' centers. Lowers connector 13/6''. Wt. 2 oz.

Recessed Mounting Types. Consist of Types 61 and 160 plugs and sockets in Type 61-61 recessed shell (above). *Ground terminal.

Stock No. Type	Descrip.	EACH	Stock No.	Туре	Descrip.	EACH
40 H 685 61-M10 40 H 687 61-F10	Male Female	.44	42 H 526 42 H 527	160-4* 160-5*	Female Male	.82

Cable Mounting Type. Shielded. Steel-shelled, grounding-type plugs and sockets for use with AC cords. Types 160-6 and 160-7 have cable clamp (Fig. Z) for up to $\frac{3}{4}$ cable; Types 160-8 and 160-9 have rubber grommets (similar to Fig. X) for up to $\frac{3}{16}$ cable. All are 2-pole. 3 oz.

42 H 528 160-6 Female 42 H 529 160-7 Male	.82 42 H 535 160-8 Female 1.18 42 H 536 160-9 Male	

Steel Caps. For use with above plugs, sockets and connectors. Types 3-13 and 3-857 (Fig. X), have grommet for up to $\frac{1}{6}$ cable. Types 3-24 and 3-856 (Fig. AA), have adjustable clamps for cables up to $\frac{3}{6}$ diameter.

Stock No.	Туре	Fig.	Use with Plugs and Sockets	Types	EACH
42 H 537 42 H 545 42 H 538 42 H 546		X AA	61, 86-CP, and S(Series 78). Series 160 61, 86-CP, and S(Series 78). Series 160		.13

AMPHENOL TYPE CP PLUGS

Standard bakelite plugs ideal for use as chassis connectors with plug-in units. "CP" plugs quickly and easily installed without screws or rivets by means of retainer rings. Use adapter plate below for replacement mounting. RMS voltage ratings: 86-CP4, 2000 v.; CP-11 and CP-12, 500 v.; all others, 1250 v. With mounting ring for 11½6" holes except *12½8" keyed hole. †Have guide post and aligning key. CP7L has large pins; CP7S has small. Av. shpg. wt., 2 oz.



Stock No.	Mfr'sType	Pins	EACH	Stock No.	Mfr'sType	Pins	EACH
40 H 015 40 H 016	86-CP5	5	.18	40 H 021	86-CP8† 86-CP9†	9	.21
	86-CP6 86-CP7L* 86-CP7S	6 7 7	.19	40 H 022 42 H 654	86-CP11† 86-CP12†	11 12	.24

AMPHENOL MULTIWIRE CONNECTORS

Matching male and female connectors. Take cables up to 7/6". "F" in type number, female; "M", male. 78-PF8 is standard octal. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Con-	NET EACH			Con- tacts	EACH
40 H 524 40 H 525 40 H 526 40 H 527	78-PF4 78-PF5 78-PF6 78-PF7S	4 5 6 7S	.32 .33 .35	40 H 505 40 H 506 40 H 507 40 H 508	86-PM5 86-PM6 86-PM7S 86-PM8	5 6 7S 8	.37 .38 .39 .39
40 H 528 40 H 516 40 H 517 40 H 504	78-PF8 78-PF9 78-PF11 86-PM4	8 9 11 4	.34 .37 .39	40 H 512 40 H 513 42 H 655 42 H 656	86-PM9 86-PM11 86-PM12 86-PM20		.40 .42 .44 .62

Amphenol Cable Clamp. Type 79-CC4. For use with above connectors. Relieves strain on soldered connections. Shpg. wt., 5 oz. 40 H 670. NET.

HARRY DAVIES MOLDED KNOBS

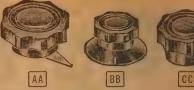


A wide selection of plastic knobs for replacement use on majority of radios and TV sets. Figs. C and D are for small radios. *For knurled shafts; †screws onto 8-32 threaded shaft; †screws on 6-32 threaded shaft; †self-locating

friction fit for flat wire shafts; all others equipped with setscrews to permit use with either round or flatted 1/4" shafts. \$Indicates types not manufactured by Harry Davies. **For dual concentric shafts. Av. shpg. wt., 3 oz.

Stock No.	Fig.	Size	Color	1-9, EA.	10-49, EA.	Stock No.	Fig.	Size	Color	1-9, EA.	10-49, EA.
55 H 031 55 H 032 55 H 080 55 H 022 55 H 025	A A B B	1½" 1½" 29/32" ½" 3/4"	Black Red Black Black Black	.14	.126 .135 .099 .099	54 H 980 54 H 981 55 H 067 55 H 083 55 H 084	K K L M	1½" 1½" 1½"	§Walnut §Ivory §Black Black	.15	.14 .14 .315 .090
55 H 027 55 H 028 55 H 029 55 H 043 55 H 035	B* B* C*	3/4 ** 3/4 ** 3/4 ** 3/4 ** 1 1 1/16 ** 1 1/16 **	Walnut Walnut Ivory Black Black	.13	.117 .054 .126 .045	55 H 072 55 H 073 55 H 078 55 H 074 55 H 070	P	13/16" 11/4" 11/4" 11/4" 11/4" 2"	Black Red Black Black Black	.10	.090 .081 .09 .126
55 H 036 55 H 023 55 H 040 55 H 042 55 H 081	C C D D*	1 1/16" 1 1/16" 1 1/16" 1 1/16"	Walnut Black Black Black Black		.072 .099 .072 .045	55 H 071 55 H 079 55 H 006 55 H 089 55 H 056	- S S T T	2" 2" 15/8" 21/2" 3/4"	Red Black Black Black Black Black	.17	.153 .162 .198 .162 .171
55 H 018 55 H 019 54 H 964 55 H 024 55 H 050	E E F* G	1½8" 1½8" 1½8" 1½8" 1¾8"	Black Red §Walnut Black Black	.12	.108 .117 .162 .099	55 H 057 55 H 058 55 H 059 55 H 980 55 H 981	Y Z **Z&Y #W #W	1½" 1½" 3¼"-1¼" 31/64"-½" 31/64"-½"	Black Black Black Red Black	.16	.144 .144 .261 .054
55 H 082 54 H 982	H† J	3/4 " 1"	Black §Walnut	.07	.063	55 H 983 55 H 982	‡ X ‡ X	51/64"-1/2" 51/64"-1/2"	Black Red	.06	.054

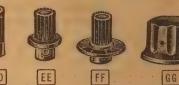
HARRY DAVIES FLUTED KNOBS



An excellent selection of high-quality fluted knobs. Functionally designed—add custom appearance to amateur, experimental, and test equipment. Durable, high-gloss bakelite. Have metal inserts with setscrew to fit flatted or round 1/4" shafts. Shpg. wt., 4 oz.

Stock No.	Fig.	Dia.	1-9, EA.	10-49, EA.
55 H 085 55 H 088	AA AA	1 1/8"	.36	.324
55 H 086 55 H 087	AA AA	15/8"	.39	.351
55 H 095	ĈĈ	11/8"	.23	.207
55 H 094 55 H 096	CC	13/8"	.24	.216
55 H 097	CC	23/8"	.40	.36
55 H 092 55 H 090	BB	1 ½" 2½"	.44 .54	.396 .486

MILLEN MINIATURE KNOBS



Black plastic knobs with brass inserts for ½ diameter shafts. Developed primarily for use in miniaturized equipment. In certain devices where complete miniaturization is not paramount, a combination of standard and miniature knobs may possibly be used to advantage Type A018, A007 and A019 have screwdriver slot in top. Overall height: A006, ½; A007. A018 and A019, ½. Av. shpg. wt., 4 oz.

No		Type	Fig.	Size	NET
72 H 2 72 H 2 72 H 2 72 H 2	73 72	A018 A007		14" dial dia. 3%" dial dia. 5%" dial dia. 34" dial dia.	.36 .39 .42 .48

NATIONAL HR SERIES KNOBS







A matched line for industrial and consumer use. In a variety of styles and sizes. All knobs in this series share a family resemblance, giving job a uniting the series of unitized appearance.

Stock No.	Туре	√ig.	Description -	Wt.	NET
71 H 214 71 H 208 71 H 209 71 H 056	HR HR	JJ	Satin chrome finish. 5/8" dia. Black; white dot. 15/6" dia. Gray, same as above Black; chrome insert. 2/8" dia.	2 oz. 2 oz. 2 oz. 3 oz.	.39
71 H 234 71 H 057 71 H 248	HRT	KK	Same as above, but 1½" dia. Gray; chrome insert. 2½" dia. Same as above, but 1½" dia.	2 oz. 3 oz. 2 oz.	1.04

NATIONAL VERNIER DIALS







ICN MCN

Blank Cials with 5:1 drive. Hairline pointers; pinholes for calibration. Black wrinkle finish. With extra scales, hdwe., and hub for $\frac{1}{4}$ shafts.

Type ACN. The famous original of this type with smart styling. Large-size vernier dial for easy direct calibration of 5 blank scales. Knob has bright chrome insert. 5" high, 7½" wide. Shpg. wt., 1½ lbs.
7.80

Type SCN. Vernier dial same as above but intermediate in size. $4\frac{1}{6}$ high, $6\frac{1}{4}$ wide. Ideal for use where space is limited. Shpg. wt., 1 lb. 7.80 1 H 088. NET......

Type ICN Has large, easy-to-read, evenly illuminated vernier dial. 5 % high, 7 ½ " wide. Lights in upper corners. With standard bayonet sockets and mounting screws. Less lamps. Shpg. wt., 1 ½ lbs. 7.80

Type MCN. Small size vernier dial. Similar to above but not illuminated. 2¾" high, 3½" wide. Perfect for mobile gear and other small units. 3 blank scales. Mechanism extends ¼" below frame. 10 oz. 7.20

NATIONAL CALIBRATED KNOBS





For any equipment. Types R, HRS-3 and HRS-5 are numbered 0-10 over are shown in scale column of table below. HRS-4 has single etched center line. All fit 1/4" shafts. HRS types of molded Tenite with chromed bevel dial; Type R of molded bakelite, flat aluminum dial. Wt., 2 oz.

Stock No.	Type No.	Fig.	Color	Scale	Dia.	NET
71 H 058	HRS-3	LL	Black	0-10; 300°	17/16"	.66
71 H 059	HRS-3	LL	Gray	0-10: 300°	17/16"	66
71 H 218	HRS-4	LL	Black	1-line	17/16"	.66
71 H 219	HRS-4	LL	Gray	1-line	17/16"	.66
72 H 691	HRS-5	LL	Black	0-10: 180°	17/16"	.66
72 H 692	HRS-5	LL	Gray	0-10: 180°	17/16"	.66
71 H 070	R	MM	Black	0-10; 180°	15/8"	.89

MILLEN MULTI-SCALE DIALS





Type 10039 Midget Panel Dial. Economy model. Excellent for small transmitters, receivers and measurement equipment. Drive ratio is 8 to 1. Totally self-contained mechanism eliminates back-of-panel interference; has 5 blank scales for calibration and one 0-100 logging scale. Black finish. Size, 4x31/4". Shpg. wt., 13 oz.

72 H 050. NET

3.24

MILLEN INSTRUMENT KNOB

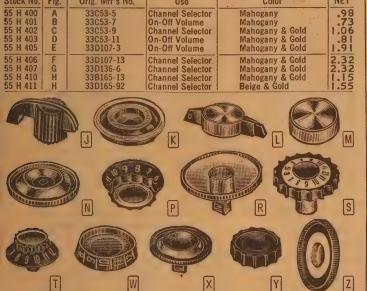


TV Knobs, Dial Plates and Dial Accessories

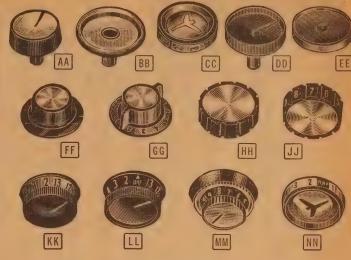
G-C EXACT REPLACEMENT TV KNOBS



ADMIKAL KNOBS Av. supg. wt., 5					
Orig. Mfr's No.	Use	Color ~~	NET		
33C53-5 33C53-7 33C53-9 33C53-11 33D107-3	Channel Selector On-Off Volume Channel Selector On-Off Volume On-Off Volume	Mahogany Mahogany Mahogany & Gold Mahogany & Gold Mahogany & Gold	.98 .73 1.06 .81		
33D107-13	Channel Selector	Mahogany & Gold	2.32		



* UHF-	VHF		RCA	KNOBS	Av. shpg. wt.,	3 oz.
Stock No.	Fig.	Orig. Mfr's No.		Use	Color	NET
55 H 454 55 H 455 55 H 456 55 H 457 55 H 458	K L M	76770 77707 77708 77710 79464	Fine T Chann On-Of	el Selector uning el Selector f Volume uning	Dark Maroon & Gold Brown w/Polished Brass Red w/Polished Brass Black, Polished Brass Gold, Maroon	.74 1.54 1.47 1.54 1.23
55 H 459 55 H 460 55 H 461 55 H 462 55 H 463	PSRTW	79466 100627 100629 100637 100944	Chann Fine T Chann		Amber, Gray, Maroon & Gold Maroon w/Polished Brass Clear w/Gold Edge Brown Dark Wine	
55 H 464 55 H 465 55 H 467	X Y Z	101015 101150 101276	Chann	funing nel Selector funing	Gold & Maroon Dark Wine Gold & Maroon	1.23



1		G.E. KNOBS	Av. shpg. wt.,	3 oz.
Stock No. Fig.	Orig. Mfr's No.	Use	Color	NET
55 H 417 55 H 418 AA 55 H 419 BB 55 H 420 CC 55 H 421 DD	G1001 G1002 G1003 GWT43X246 GWT43X269	Channel Selector Channel Selector Fine Tuning Channel Selector Channel Selector	Black & Gold Black & Silver Silver Green & Gold Clear & Gold	.90 .90 .90 1.23 2.06
55 H 422 55 H 423 FF 55 H 424 GG 55 H 426 HH 55 H 427 JJ	WT43X40(RDK222) WT43X41(RDK223) WT43X42(RDK224) WT43X53(RDK263) WT43X54(RDK264)	Fine Tuning Off-On Volume Channel Selector Off-On Volume Channel Selector	Fawn Fawn Fawn Brown & Fawn Brown & Fawn	.56 .73 .85 .98 1.47
55 H 428 KK 55 H 430 MW 55 H 431 MM 55 H 429 LL 55 H 432 NN		Channel Selector Channel Selector	Brown & Gold Brown & Gold Fawn & Gold Brown Brown	1.88 2.06 2.23 2.79 1.73



Stock No. Fig.	Orig. Mfr's No.	Use	Color	NET
55 H 433 PP	36C700886	Channel Selector	Mahogany & Gold	1.73
55 H 434 RR	36K700887	Contrast	Mahogany & Gold	1.06
55 H 435 SS	36C700888	Fine Tuning, Vol.	Mahogany & Gold	1.32
55 H 436 TT	36C700889	Channel Selector	Mahogany & Gold	1.73
55 H 437 WW	36K700890	Contrast	Mahogany & Gold	1.06

CRONAME SQUARE DIAL PLATES

Attractive anodized aluminum dial plates with black scales. Use with 1½" bar knob. Gives custom-built look to hi-fi and P.A. amps, preamps, recorders, etc. Size, 2½6x2½", with ½" center hole. Shpg. wt., 2 oz.

ABCDE



Stock No.	Туре	Description
55 H 160 55 H 161 55 H 137 55 H 136 55 H 164 55 H 165 55 H 126	448 447 429 428 416 417 415	Treble, 0-10 Bass, 0-10 Treble, 5-0-5 Bass, 5-0-5 Microphone, 1, 0-10 Microphone, 2, 0-10 Microphone, 0-10
55 H 170 55 H 124 55 H 127 55 H 123 55 H 134	413 412 422 411 426	Master Gain, 0-10 Gain, 0-10 Gain, 5-0-5 Tone, 0-10 Volume, 0-10
55 H 25 55 H 35 55 H 38 55 H 39 55 H 31 55 H 72	414 427 430 446 423 410	Record, 0-10 Fader, 5-0-5 Expansion, 0-10 Phono, 0-10 Increase, with arrow No title, 0-10

CRONAME "OFF-ON" SWITCH PLATE

Economy-priced "Off-On" switch plates. Etched aluminum with black background. Has polished aluminum let-ters and border. Size, 11/4×111/6". Shpg. wt., 2 oz. 60 H 338. NET EACH...



CRONAME DIAL PLATES

Easy-to-read etched aluminum scale with black background. 13/4" diameter. Type 25 has clockwise arrow labeled "Volume." Simple, one-hole mounting. Ideal for use on amplifiers, modulators, phonographs, transmitters, etc. Use with 11/4" bar knobs. 13/2" center-hole. Shpg. wt., 2 oz.

Stock No.	Туре	Description	NET
55 H 4	25	Volume	.27
55 H 40	569	0-100, 180°	
55 H 08	905	0-100, 270°	

E. F. JOHNSON FLEXIBLE SHAFTS

Non-rusting phosphor-bronze flexible shafts with ½" hubs. Ideal for connecting out-of-line shafts together. Handy accessory for Amateurs, experimenters, labs, etc. Permit up to 90 degrees angular control. Shpg. wt., 2 oz. 73 H 290. 115-253. Length, 3". NET.....57 73 H 291. 115-254. Length, 6". NET.....83

PANEL BEARING ASSEMBLY

For use with couplings at right on panels up to %6" thick mounted away from controls. Brass bearing has stub for knob with ½ shaft on other side. With 2 fiber washers. 3 oz. 60 H 385. Overall length, 3". NET 60 H 390. Bearing only. NET.....



WALSCO **DIAL CORD SPOOLS**

Cords with nylon sleeves over fiberglas or linen cores. Prestretched to prevent stretching and slipping; maintain proper tension. Av. wt., 4 oz.



Stock No.	Туре	Dia.	Strgth.	Lgth.	EACH
60H 491	652-Med. 656-Thin 654-Std.	.025"	15 lbs.	25 ft. 25 ft. 25 ft.	
43H 195	652-Med. 656-Thin 654-Std.	.025"	15 lbs.	100 ft.	2.32







Coupling Extender
Couplings for extending shafts of volume controls, switches, capacitors, etc., or for ganging tingle units, even when shafts are not of the same diameter. Insulated types are made of black phenolic. Extenders for decreasing or increasing shaft diameter and for extending shaft length. 60 H 366 has %" opening, %" shaft. Shaft length on all extenders, %"; overall length, 1%". Av. shpg. wt., 4 oz.

Insulated

60 H 360 60 H 361 60 H 362 60 H 365 60 H 366 60 H 350 Coupling Extender Extender 60 H 352 60 H 355

NET EACH

Insulators, Coil Forms, Polystyrene Sheets and Rods_

E. F. JOHNSON INSULATORS



Stand-Off Insulators. High-glaze porcelain, except §steatite. Nickel-plated brass hardware. 135-65, 135-65-2, 135-68-2 are ribbed; others have drawn bases. †Banana jack and solder lug, as in Fig. B. 740 jack is scanderd. 166" inner dia., and 760 is jumbo .277" banana jack. *Like kig. C, but square base and 4 mtg. holes. Av. wt., 1 lb.

Stock No.	Nifr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Mtg. Ctrs.	Hard- ware	NET
73 H 120 73 H 121	135-20§ 135-20-2	A B	1 %16" 1 %16"	3/4" 3/4"	13/4"	15/16" 15/16"	10-32 740†	.32
73 H 122 73 H 123 73 H 139	135-22 § 135-22-2 135-24 §	A B A	1" 1" 5/8"	15/ ₃₂ " 15/ ₃₂ " 3/ ₈ "	15/32" 15/32"	13/16" 13/16"	8-32 740† 6-32	.26
73 H 25 73 H 26	135-60 135-62	*	41/2" 23/4"	13/16"	21/2"	17/8"	1/4-20 1/4-20	1.20
73 H 127 73 H 128	135-65 135-65-2	, C	13/8"	5/8"	17/8"	1 1/2" 1 1/2" 1 3/8"	10-32 740†	.31
73 H 129 73 H 130	135-66-2	$\frac{D}{D}$	$\frac{2^{3/4}''}{2^{3/4}''}$	15/16" 15/16"	13/4"	13/8"	1/4-20 760†	.87
73 H 131 73 H 136	135-67 135-68	D *	4 ½" 2"	11/16"	21/4"	13/4"	1/4-20 10-32	1.25
-73 H 137	135-68-2		2"	23/32"	13/4"	13/8"	740†	.60

Lead in Bushings. Ideal high-voltage terminals. 135-50, 135-51, 135-52, 135-55 are steatite, with nickeled brass rod and nuts; 135-53, 135-54 are porcelain, less hardware. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Panel Hole	NET
73 H 60	135-50	H	1"	3/8"	3/4"	15/ ₃₂ "	.40
73 H 61	135-51	H	15/8"	5/8"	1 1/4"	27/ ₃₂ "	
73 H 62	135-52	H	21/4"	7/8"	1 3/4"	1 ⁷ / ₃₂ "	
73 H 163	135-53	F	1 3/4"	11/16"	21/2"	1 ²⁷ / ₃₂ "	.35
73 H 164	135-54	E	4"		31/2"	2 ¹¹ / ₁₆ "	1.10
73 H 165	135-55	G	1/2"		3/4"	15/ ₃₂ "	.31

Ultra-Steatite Cone Insulators: (Fig. J). Non-ribbed. With hardware. Type | Body Ht. | Min. Dia. | Max. Dia. |

3 COCK 140.		ii	2000		11. Dia.	IVICA. N	Jia.	14 15 1
73 H 150 73 H 151 73 H 152 73 H 153 73 H 154	135-50 135-50 135-50	12 3	1" 11/2" 2" 3"		7/16" 1/2" 1/2" 5/8"	5/8' 3/4' 1" 1 1/8' 1 1/2'	,	.23 .31 .51 .77 1.34
Thru-Pan	el Type.	Porce.	lain exc	ept tsta	eatite. *	108-740	jack.	12 oz.
Stock No.	Mfr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Panel Hole	Har	
73 H 225 73 H 226 73 H 227 73 H 228	135-40† 135-40-2 135-42† 135-42-2	K L K L	1 3/4" 1 3/4" 1 1/4" 1 1/4"	19/32" 19/32" 1/2" 1/2"	15/16" 15/16" 3/4" 3/4"	7/16" 7/16" 13/32" 13/32"	10-3 * 10-3 *	.53
73 H 229 73 H 230 73 H 231 73 H 233	135-44† 135-45 135-45-2 135-46	K M N K	15/16" 21/16" 21/16" 33/4"	3/8" 5/8" 5/8" 15/16"	5/8" 1 1/4" 1 1/4" 1 5/8"	5/16" 1/2" 1/2" 11/16"	6-3 10-3 *	2 .59

FEEDER SPREADERS

Feeder spreaders for constructing high efficiency, open-wire antenna feeders and transmission lines. Silicone impregnated, moisture-proof porcelain. $\frac{1}{2}$ Av. shpg. wt., 3 oz.

Stock No.	Туре	Length	NET EACH
73 H	136-122 136-124 136-126	2" 4" 6"	.17 .28

JOHNSON ANTENNA INSULATORS

High-quality, strain-type insulators for use in antenna construction. Glazed porcelain surfaces resist moisture absorption and prevent RF leakage. Types 136-107 and 136-112 are wet-process, 1" diameter glazed porcelain; have 800 lbs. breaking strength. Type 104 dry-process glazed porcelain, 5/4" square; has 400 lbs. breaking strength. Types 107, 112, 800 lbs. breaking strength.

Stock No.	Mfr's Type	Size	Shpg.	NET
73 H 215 73 H 216	136-104 136-107	4"x5/8" sq.	4 oz. 10 oz.	.28

NATIONAL STANDOFF INSULATORS

Steatite insulators for RF circuits. Cap and base are nickel plated brass. Glazed to prevent the absorption of moisture. Base and terminal assembly are removable to form single-screw pillar mount. Three mounting holes, spaced 120° accept 6-32 machine screws. Shpg.wt., 3 oz.

Stock No.	Mfr's Type	Ht.	Dia,	NET
71 H 125 71 H 126 71 H 127 71 H 224	GS-1 GS-2 GS-3 GS-4	17/16" 215/16" 213/16" 413/16"	1/2" 1/2" 3/4" 3/4"	1.02 1.26 1.74

POLYSTYRENE SHEETS, RODS AND TUBING



An excellent selection of high-grade polystyrene sheets, rods and tubing. Ideal for AC, DC and RF applications including VHF, UHF, and SHF. Rods and tubing are excellent material for making insulators or coil forms. Sheets may be used for shielding or dial and gauge glass.

All have extremely low-loss factor at ultra-high frequencies. Have high dielectric strength, excellent arc resistance and insulating properties. No moisture absorption. Highly stable under varying climatic conditions. Always retain tapped. Sheets are transparent. All tubing has satin finish except* clear; all rods are frosted except † clear.

POLYSTYRENE SHEETS

•	Stock No.	Size	Thick- ness	Shpg. Wt.	NET	Stock No.	Size	Thick- ness	Shpg. Wt.	NET
	71 H 865 71 H 866 71 H 867 71 H 868 71 H 869	12x12" 12x12" 12x12"	1/16" 3/32" 1/8" 3/16" 1/4"	8 oz. 10 oz. 12 oz. 1 lb. 1½ lbs.	4.07 4.70 5.39 7.01 7.99	71 HX 871	12x24"	1/8" 3/16"		7.64 8.97 10.39 12.89 15.34

12" POLYSTYRENE RODS

Stock No.	Dia.	Shpg. Wt.	NET EACH	Stock No.	Dia.	Shpg. Wt.	NET
71 H 875 71 H 876 71 H 877 71 H 878 71 H 879	1/8"† 3/16" 1/4" 5/16" 3/3"	2 oz. 3 oz. 5 oz. 6 oz. 6 oz.	.03 .07 .12 .18	71 H 980 71 H 881 71 H 882 71 H 883 71 H 884	1/2" 5/8"† 3/4" 7/8"	6 oz. 8 oz. 8 oz. 8 oz. 8 oz.	.47 .71 .98 1.39

12" POLYSTYRENE TUBING

Stock No.	O. D.	1. D.	Shpg. Wt.	NET	Stock No.	O.D.	1. D.	Shpg. Wt.	NET
71 H 885 71 H 886 71 H 887 71 H 888	1/4"* 5/16"* 3/8" 1/2"	1/8" 3/16" 1/4" 3/8"	2 oz. 3 oz. 3 oz. 3 oz.	.10	71 H 889 71 H 890 71 H 891	5/8" 3/4" 1"	1/2" 5/8" 7/8"	4 oz. 4 oz. 6 oz.	.31 .39 .55

ANTENNA INSULATORS



Glazed porcelain insulator. Has ribbed construction to provide long leakage path. 2½" long. Shpg. wt., 2 oz. 4 per pkg. 21

51 H 225. Standard nail knob for single leads or 1" open lines. 13/4×11/8" dia. Shpg. wt., 4 oz. 4 per pkg.

POLYSTYRENE COIL FORMS



A wide selection of coil forms for winding RF coils of all types. Feature low loss, high dielectric polystyrene construction—produce coils of exceptional stability. Excellent for plug-in type regenerative shortwave receiver coils; plate, grid or tanks coils in VFO's or low-power transmitters; grid-dip meter coils; VHF equipment, etc. The 4,5, and 6 prong standard forms fit standard tube sockets; 5 and 6 prong miniature coil forms fit Amphenol Type 78-S5S and 78-S6S miniature sockets (listed under "Retainer Ring Sockets" in the Amphenol pages of this catalog). Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	Size	NET EA.
7 H 723 7 H 7 1 7 H 7 3 7 H 7 4 7 H 724	24-6H 24-4P 24-5P	5-Prong Min. 6-Prong Min. 4-Prong Std. 5-Prong Std. 6-Prong Std.	19/16X1 3/4" 21/4X1 1/4" 21/4X1 1/4"	

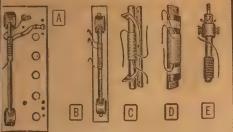
MILLEN MOLDED COIL FORMS



Type 45005. Same as 45004, but has 5 prongs

J. W. Miller, National, Hammarlund and Millen Components

J. W. MILLER LOOP ANTENNAS



FERRITE ROD ANTENNA

TRANSISTOR LOOP ANTENNA

Type 2000. Has fixed inductance loop; picks up adequate signal to the first stage. Inductor is tapped to match the 600 ohm input impedance of the transistor. Frequency range is 540-1650 kc when used with a 365 mmf variable capacitor. 11/4x91/2". Shpg. wt., 3 oz. NET 1.91

TRANSISTOR ANTENNA RODS

Type 2001. Matches 600 ohm input impedance. Inductance, 240 µh. Tunes with 365 mmf. 34x334". Shpg. wt., 4 oz. NET 1.76

STRIP TRANSISTOR ANTENNA RODS

Type 2005. As above, but 700 microhenries.
Use with 125 mmf capacitor.
60 H 979......NET 1.76

SUB-MINIATURE ANTENNA ROD

Type 2002. Adjustable from 35-300 µh. Hi-Q coil tunes with 500 mmf. Mounts in 5/6" hole, or bracket supplied. Matches 600 ohm input. Size, ½x2½". Shpg. wt., 3 oz. 60 H 980.

NATIONAL FRONT-PANEL RIGHT-ANGLE DRIVE

Type P-RAD. As above, but deluxe precision model with brass gears, stainless steel shafts and bushings, bronze bearings and a die-cast zinc housing. Gears are protected by removable cover. Backlash less than 1½%. 3 oz. 17.25

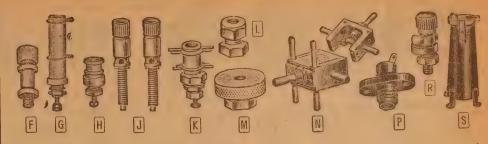
HAMMARLUND COUPLINGS

INSULATED COUPLING

For coupling drive shafts to capacitors, gang switches, controls and other components. Bakelite insulation. Hubs drilled to fit 1/4" shafts; set-screws hold rigidly. Shpg. wt., 2 oz.



MILLEN PRECISION COMPONENTS



A selection of most widely used Millen "Designed for Application" components—famous for their outstanding quality among industrial, Amateur, and experimental users. Excellent for original-equipment applications, as well as for replacement purposes in existing units. All are made to exacting specifications to provide maximum dependability. Included in this listing are Series 69000 slug-tuned ceramic coil forms

-copper slug reduces inductance when it —copper slug reduces inductance when it moves into coil; iron slug increases inductance. Form dimensions indicate diameters and winding lengths. Series 80000 cathoderay bezels have satin-black finish, neoprene cushions (except 80072, felt cushion), and green lucite filters. Refer to Manufacturers Index for page numbers of RF chokes and many other Millen products in this Catalog. *Items not illustrated. *Items not illustrated.

Stock No.	Mfr's Type	Fig.	Description.	Wt., Oz.	EACH
72 H 085 72 H 087 72 H 099 72 H 668	10012 10050 10061 A061	N R L	Right Angle Drive. Dial Lock. Shaft Lock, for ¾" Bushing; ¼" shafts Shaft Lock, for ¼" Bushing; ½" shafts	5 4 4	5.00 .54 .45
72 H 088	10062 ['] 37001	M	Shaft Lock with Knurled Nut	3	.54
72 H 036 72 H 037 72 H 260 72 H 261 72 H 057	37001 40305 41305 37202	* * *	High Voltage Terminal and Thru-Bushing, Red 5-Prong Steatite Coil Plug	3 3 2	.48
72 H 059 72 H 130	37222 69041	H	Binding Post. Ceramic Slug-tuned Coil Form, 18/32x1/32", Copper	6 3	.30
72 H 131 72 H 084	69043 69045	F G	Slug. Ceramic Slug-tuned Coil Form, ½x½", Iron Slug Ceramic Slug-tuned Coil Form, ½x½", Copper Slug.	3	1.05
72 H 132 72 H 133	69046	G *	Ceramic Slug-tuned Coil Form, ½x1½", Iron Slug Ceramic Slug-tuned Coil Form, ½x½", Iron Slug Ceramic Slug-tuned Coil Form, ½x½", Iron Slug	3	1.05
72 H 672 72 H 673	69056 69057	K	Ceramic Slug-tuned Coil Form, $4 \times \%$, Copper Slug	3	.87
72 H 674 72 H 675	69058 69061	K K	Ceramic Slug-tuned Coil Form, 1/4 x 1/8", Iron Slug Ceramic Slug-tuned Coil Form, 1/4 x 1/8", Copper	3	.90
72 H 676 72 H 168	69062 74400	K *	Slug. Ceramic Slug-tuned Coil Form, %x x 3/4, Iron Slug Octal Base and Shield, 1 1/4 x 1/4 x 315/4	3 10	1.40
72 H 150	80042	; , \$;	Nicoloi Shield for use with either 2ATI of 2BTI 2" CR Tubes	10	6.90
72 H 151	80043	S	Nicoloi Shield for use with either 3AP1, 3BP1 or 3DP1 3" CR Tubes	10	9.70
72 H 177 72 H 153 72 H 154 72 H 155	80055 80072 80073 80075	* * *	Nicoloi Shield for 5CP1Bezel, Cushion and Filter for 2" CR TubeBezel, Cushion and Filter for 3" CR TubeBezel, Cushion and Filter for 5" CR Tube	4 5	1.80 4.35 8.40

MINIATURIZED COUPLINGS

For limited space use. Type M003 nickel-plated is brass. Type M006 (illustrated) is universal joint style made of nickel-plated brass with steatite ceramic insulation and spring fingers. Type M008 is a plastic insulated coupling with nickel-plated brass inserts. Type 39003 is solid brass for ¼" shafts; all others are for ½" shafts. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	NET
72 H 172 72 H 170 72 H 171 72 H 090	M006 M008	Solid brass coupling Univ. joint coupling Insulated coupling Solid brass coupling	.75

33087 TUBE BASE CLAMPS



Sturdily made, polished spring steel tube base clamps. Hold tubes in sockets and protect against damage from sudden jarring and shock. Excellent for use in mobile equipment and for reducing vibration of oscillator tubes in test equipment, etc. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Diameter	NET
72 H 178 72 H 179 72 H 180 72 H 181	33087A 33087B 33087C 33087D 33087E	1.125" 1.165" 1.250" 1.275"	.36

FLEXIBLE COUPLINGS

Popular 39000 series flexible couplings. Designed to provide higher flexibility, no backlash, high breakdown voltages, small diameter and accurate alignment. In addition to improved versions of conventional types, units include original design, Type 39001 with insulated universal joint; 36006 "slide-action" coupling for out-of-line or eccentric shaft motion. Type 39005 (high torque) similar to 39001 but not insulated. Type 39016 (illus.) molded as single unit for high resistance to mechanical shock; has solid insulating barrier diaphragm. All are for ¼" shafts except* for ¾6" shaft. Av. shpg. wt., 202

	Mfr's Type	Description	NET
72 H 034 72 H 176 72 H 054 72 H 094 72 H 175 72 H 666	39002 39005 39006 39016	Universal joint Slide action Barrier	.48 .48 .48 .48

DRIVE MECHANISM

Type 10000 Worm Drive.

TRIMMERS AND PADDERS



Mica trimmer and padder capacitors. Treated for resistance to humidity and permanence of capacity settings. Low-loss ceramic base. Clear India mica. Rigid plates permit bending soldering dicated in tables below, are from 3 turns open to tight setting. Av. shpg. wt., 2 oz.

STANDARD SIZE, 3/4"x5/8"

Stock	Min.	Max.	NET
No.	Mmf	Mmf	
60 L 347	1.5	15	.13
60 L 340	2.7	30	
60 L 341	5.0	80	
60 L 342	9.0	180	
60 L 343	25	280	
60 L 344 60 L 345 60 L 346 60 L 348 60 L 349	50 80 110 140 170	380 480 580 680 780	.20 .22 .25 .27

MIDGET SIZE, 3/8"x3/4"

Stock No.	Min. Mmf	Max. Mmf	NET
17 L 077 17 L 078 17 L 079 17 L 080	1 2 4 7	12 25 40 100	•13 •13 •15
17 L 081 17 L 082 17 L 083 17 L 084 17 L 085 17 L 086	16 24 37 55 70 90	200 250 300 350 400	.17 .20 .22 .25
	90	400	.30

MINIATURE SIZE, 3/8"x%6"

Stock	Min.	Max.	NET
No.	Mmf	Mmf	
17 L 087	0.9 .	7	.14
17 L 088	1.5	20	
17 L 089	4	40	
17 L 090	7	60	

MILLEN CAPACITORS



Series 20000 Ultra-Midgets.
Top-quality, steatite-insulated variables. For use in applications requiring miniaturized components. All are single-bearing type with .015" air gap (rated 600 volts peak), except *double-bearing type with long, 5%6"-32 thread bushing. Shpg. wt., 5 oz. Series 20000 Ultra-Midgets.

Stock	Mfr's	Max.	Min.	Overall	NET
No.	Type	Mmf	Mmf	Length	
72 L 030	20015	20	2.8	1 2 9/32 "	1.77
72 L 044	20025	28.5	3.0	2 1/32 "	1.86
72 L 032	20050	56	3.5	2 5/32 "	2.04
72 L 033	20100	111	5.2	2 2 1/32 "	2.43
72 L 045	21935*	39.5	6.7	3 9/32 "	4.08

NEW MINIATURE 2-GANG VARIABLE CAPACITOR



Ideal variable tuning capacitor for miniature circuitry and use as exact-duplicate replacement in current transistor receivers. Rotates through a full 180°—maximum capacity: antenna section, 148.1 mmf; oscillator section, 65.2 mmf. Trimmer capacity: variable to over 6 mmf. Trimmer adjustment on rear of trimmer adjustment on rear of section, 190°, wt., 4 oz.

NEW VARIABLE TUNING CAPACITOR WITH DIAL



Miniature single-gang capacitor for use in TRF broadcast band and experimental receivers—ideal for transistor circuits. Capacity variable from 10 to 365 mmf. Has 1½" diameter, clear plastic tuning dial

mmf. Has 1½" diameter, clear plastic tuning dial with milled edges. Cali-1600 KC. Rotates through 180°. Size, only 1" square, and ½" deep; shaft size, ½". Shpg. wt.. 5 oz. 17 L 091......NET .69

RECEIVER-TYPE CAPACITORS

MIDGET SUPERHET AND TRF TYPES





Midget TRF. Compact, 33-plate, single-gang capacitor. Variable from 15 to 409 mmf. Capacity increases clockwise. Size: 1% deep, 1% wide, 1% high. ½ diameter shaft extends ¾ beyond capacitor beyond capacitor shops. wt., 5 oz.

.....NET .76

TRANSISTOR CAPACITORS



Midget Superhet. Compact,

Midget Superhet. Compact, variable, two-section capacitor designed for use with broadcast band transistor receivers. Ideal for small table models and portables. Counter-clockwise rotation for capacity increase. Each section oscillator section designed for 455-kc IF. Oscillator capacity: 7.2 to 66 mmf. Antenna section capacity: 7.5 to 81 mmf. Shaft diameter 14". Size: 1%x1'%x1'%". Wt., 4 oz.



Miniature Superhet. Two section, variable capacitor designed particularly for the special needs of miniature transistor receivers. Although small in size, accuracy and precision are not sacrificed. Complete with trimmers. ¼" shaft has ball-bearing mount. Capacity ranges: Oscillator section, 6.1 to 73.4 mmf; RF section, 7.0 to 123.1 mmf. Size: 1½x1½x½". Shpg. wt., 2 oz.

NET 1.04

CARDWELL CAPACITORS





VHF BUTTERFLY CAPACITORS

A 90° capacitors with butterfly rotor plates. Electrical symmetry; low inductance; no moving contacts. Isolantite insulation. Removable plates. Air gap, .030″. Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Max.		NET
75 L 001	PL-6077	5	1.5	2.07
75 L 002		7	2.0	2.49
75 L 003		13	3.0	2.64

"TRIM-AIR" MIDGETS

B Universal mounting. Isolantite insulation. Shaft has rear extension for ganging; except*. †Air gap, .02"; others .03". Shpg. wt., 7 oz.

Stock	Mfr's	Max.	Min.	NET
No.	Type	Mmf	Mmf	
75 L 0 1 0	PL-6000	10	1.2	1.57
75 L 0 1 1	PL-6001	15	1.5	1.65
75 L 0 1 2	PL-6002	25	2.0	1.85
75 L 0 1 3	PL-6003	35	2.5	2.03
75 L 014	PL-6004	50	2.8	2.18
75 L 015	PL-6016†	75	2.7	2.14
75 L 016	PL-6017†	100	3.0	2.48
75 L 017	PL-6018†*	140	5.0	3.45

BUD MIDGET TRIMMERS



Type MT-833. For antenna coupling, interstage coupling and receiver tracking applications. Has screw adjustment. Max. cap., 36 mmf; min. cap., 3 mmf. Shpg. wt., 4 oz.

SUPERHET CAPACITOR AND MATCHING COILS



Two-Section Superher Variable. 19-plate oscillator section with 172. max.—10.6 min. mmf has one 2-17 mmf trimmer. 27-plate RF section with 434 max.-14.5 min mmf; has one 2-17 mm trimmer. Provides 455 kdifference with coil and trimmer. Trovides 455 kdifference with coil and counterclockwise. 15/8x113/6x23/6". Shaft, 1/4 diameter. 3/4" long. Shpg. wt., 10 oz.

Loop Antenna for Above. Shpg. wt., 8 oz. 51 C 040..... NET .53

TRF CAPACITORS



2-Gang. For use in superhets without RF stage or in 2-stage TRF receivers. Each section has 29 plates. Range of 15.5 to 467.8 mmf, each section. Counter-clockwise rotation increases capacity. With trimeasy tracking ad justments. Spring brass wipers. Require series padder for oscillator use. "3/dia. shaft. Use extender 60 H 366 (listed on page 383), to convert to 1/4" shaft. See coil and I. F. transformer section for coils. Size: 15/8x113/6x 23/6". Shpg. wt., 10 oz.



60 L 725. 2-gang... 60 L 726. 3-gang...

BUD CAPACITORS



"MC" MIDGETS

Sturdy, highly efficient midget variables. Single and double-bearing types; *double. Fit %" dia. mounting hole. Cadmium-plated brass rotor and stator plates. Steatite insulation. .024" airgap. Shpg. wt., 7 oz.

sup. Onpg. wt., / Oz.					
Stock No.	Mfr's Type		Min. Mmt	No. of Plates	NET
6 L 43 6 L 44	1850* 1852* 1853* 1855*	15 33 50 100	3 4 5 7	3 5 7	1.78 1.84 2.43
6 L 47 6 L 48		140 190 235 300	7 9 10 12	14 19 27 33	2.65 2.72 2.94 3.38
61 L 150 61 L 151 61 L 152 61 L 154	1870 1872	15 33 50 100	3 4 5 7	43 3 5 7 14	3.67 1.76 1.84 1.91 2.06

TINY MITE 2 & 3-GANG CAPACITORS

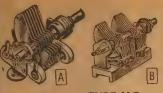


Compact, 3-gang capacitors designed for high frequency use. Ideal for converters, preselectors and receivers covering Amateur, TV and FM bands. Soldered brass plates and ceramic brackets 41/4" long. Rotor shafts extend 1/4" at rear. *LC-1660 is .2-gang. Metal parts cadmium plated. Av. shpg. wt., 1/4 lb.

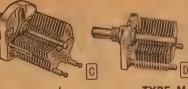
Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	Plates/ Section	NET
61 L 159			3	5 5	3.23
61 L 157	LC-1846	17	5	7	5.73

Hammarlund and E. F. Johnson Variable Capacitors

HAMMARLUND CAPACITORS















TYPE MC

TYPE MC

Have siliconized steatite base, nickel-plated brass plates. Panel or chassis mtg. *Straightline capacity characteristic; others have midline characteristic. Nominal air gap: Singlespaced M and S types, .0245"; wide-spaced SX types, .0715". Tested at 1000 v. and 1750 v. (60 cycle rms) respectively. Capacity increases with clockwise rotation. Continuous rotation. Size: S type, 111/6x 111/6"; M type, 15/8x23/2". Space 1. 2016

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET. EACH
72 L 425 72 L 426	*MC-20-S *MC-35-S	20 35	5.5	2.27
72 L 427 72 L 428	*MC-50-S MC-50-M	50	6.5	2.48
72 L 429	*MC-75-S MC-75-M	80	7.3	2.55
72 L 430 72 L 431 72 L 432	*MC-100-S MC-100-M	100	8.3 7.7	2.69
72 L 433	M C-140-M	140	9.0	2.88
72 L 434 72 L 435	*MC-140-S MC-200-M	140 200	10.0	2.85
72 L 436 72 L 437	MC-250-M MC-325-M	250 320	12.0	3.41

DOUBLE-SPACED MC's

Stock	Mfr's	Max.	Min.	
No.	Type	Mmf	Mmf	
2 L 452 2 L 454	*MC-20-SX *MC-35-SX *MC-50-SX *MC-100-SX	20 32 53 100	6.8 8.5 11.5 16.5	2.63 2.79 3.05 3.87

TYPE MCD DUALS

B Designed for single hole panel-mounting. Require only 31½2" in length behind panel. Steatite base; nickel-plated brass plates. Tested at 1000 v. Exhibit same features as Type MC, above; have terminals on both sides. Have mid-line characteristic. Size opened, ½x 3½". Shog, wt., 11 oz.

Stock	Mfr's	Min.	N E T
No.	Type	Mmf	EACH
72 L 465	MCD-50-M	5.5	7.25
72 L 466	MCD-100-M	6.3	7.74
72 L 468	MCD-140-M	7.8	8.16

TYPE MAPC

Midget padding, trimming and general-purpose capacitors. Similar to APC, but smaller. Ideal for small space applications. Gap, .0135". Rotors and stators are nickel-plated brass. Nickel-plated beryllium copper wiper contact. Tapped (4-40 thread) brass studs in steatite base permit mounting without grounding rotor. Tested at 600 volts rms, 60 cps. Overall size: 25½" wide, 15½" high. All are adjustable with screwdriver or hex wrench. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
72 L 209	MAPC-15 MAPC-25 MAPC-35	15 25 35	2.3 2.6 2.9	1.01
72 L 211 72 L 212	MAPC-50 MAPC-75 MAPC-100	50 75 100	3.2 3.9 4.5	1.19

TYPE HFA

D Sturdy capacitors, similar to HF, but larger plates and wider air gaps. For general-purpose and transmitting applications. Single-hole panel mounting. Also bracket for base mounting. End letter Ain type no. denotes. 02" air gap, B—03"; 800 and 1200 test volts respectively. 119%4x17/2". Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
72 L 224	HFA-10B	102	2.3	1.62
72 L 225	HFA-15B		2.8	1.71
72 L 226	HFA-25B		3.0	1.74
72 L 227	HFA-50B		4.3	1.92
72 L 228	HFA-100B		7.5	3.05
72 L 222	HFA-100A		4.5	2.13
72 L 223	HFA-140A		6.0	2.39

TYPE MAC

(Not illustrated.) Extremely small variable capacitors. Excellent for use as VHF trimmers. Steatite base; only ¾ x ¾". Screwdriver adjustment. Have threaded sleeve for convenient panel mounting. Shpg. wt., 4 oz.

Stock	Mfr's	Max.	Min.	NET
No.	Type	Mmf	Mmf	
72 L 255	MAC-5	5.4	1.3	1.00
72 L 256	MAC-10	9.6	1.5	
72 L 257	MAC-15	15.8	1.9	
72 L 258	MAC-20	21.5	2.2	

Ideal for critical high-frequency circuits. Isolantite insulation. *Double-spaced units. HF: 13/32×15/6"; HFD: 11/2×1". Shpg. wt., 6 oz.

Stock	Mfr's	Max.	Min.	EACH
No.	Type .	Mmf	Mmf	
72 L 215	HF-15	17.5	2.8	1.14
72 L 216	HF-35	36	3.2	
72 L 217	HF-50	52	3.7	
72 L 218	HF-100	102	5.3	
72 L 219	HF-140	142	6.3	1.74
72 L 220	*HF-15-X	15	3.6	
72 L 221	*HF-30-X	30	5.2	

HFD SPLIT-STATOR

17 L 076 72 L 230 72 L 231 72 L 232 72 L 233	HFD-50 HFD-100 HFD-140 *HFD-15-X	25 52 102 142 16 28 5	2.9 3.6 5.0 6.0 3.8 5.0	4.37 4.55 4.98 5.15 4.55 4.65
72 L 234	*HFD-30-X	28.5	5.0	4.65

TYPE APC

F Isolantite base. Screwdriver or hex-wrench adjust. 11/22x15/6". Wt., 4 oz.

72 L 254 APC-140 140 6.7 2.15

BFC BUTTERFLY TYPES

G Straight-line capacity type; 90° minimum to maximum. Spacing .03". Tested at 1200 v. rms., 60 cycles between rotor and each stator. Tapped (6-32 thread) studs in steatite base permit mounting capacitor without grounding the rotor. Silver contact. 13%x13%". Wt. 1 lb.

Stock No.	Туре	Max.	Min.	NET
72 L 262 72 L 263 72 L 264	BFC-12 BFC-25 BFC-38		3.4 4.8 6.2	2.25

NEUTRALIZING CAPACITOR

Type NZ-10, Rated, 3000 v. AC peak. Fine adjustment. Capacity, 2.3-10 mmf. 27/8x 113/8x213/8". Shpg. wt., 1 lb. NET 4.77

E. F. JOHNSON CAPACITORS



L 175 160-102 L 176 160-104 L 177 160-107 L 178 160-110 L 900 160-130



Excellent for design of compact VHF and UHF equipment. Bridge-type stator terminal provides low inductance; oversize bearing, heavily anchored stator supports insure rigidity. \$\frac{4}{x}\frac{8}{y}\$ panel mtg. space, \$\frac{1}{y}\$ hole. Slotted shaft takes \$\frac{1}{y}\$ knob. 1250 volts approximate peak break-down. Low-loss steatite insulation. Nickel-plated. Av. shpg. wt., 2 oz.

J SINGLE

5.0 8.7 14.2 19.6 32

BUTTERFLY

Max. Min. No. of NET Mmf Mmf Plates EACH

1.5



.90 .95 1.00 1.10











TYPE "R" VARIABLES

M For transmitting and receiving. Feature extra heavy steatite stator support insulators. Corrosion resistant, nickel-plated parts. Double bearing construction. Plate spacing .024". 11½" high and 1½" wide. Bearing threaded ½"-32 for panel mounting. Shaft diameter, ½". Av shpg. wt., 1 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	EACH
75 L 053 75 L 054 75 L 055 75 L 056 75 L 057 75 L 058	149-2 149-3 149-4 149-5	20 35 50 80 102 140	5 6 6.5 8 8.5 13.5	3 5 7 11 14 19	2.35 2.45 2.55 2.70 2.80 3.00
12 - 030	1 117-0	1 - 10			

TYPE "S" VARIABLES

Ideal for use in VFO's, receivers, and transmitter tuning circuits. Steatite end frame, nickel-plated brass plates. Plate spacing, 013".

—mtg. studs tapped 4-40 on "%" centers.

"\%x\s^1\%x" panel space. "\%" hex shaft. Av. shpg.

wt.,	1 lb.					
	ock lo.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	NET EACH
75 I 75 I 75 I	905 906 907 908 909	148-1 148-2 148-3 148-4 148-5 148-6	15 25 35 50 75 100	2.3 2.6 2.9 3.2 3.9 4.5	6 10 14 19 29 38	1.00 1.05 1.10 1.20 1.30

TYPE "L" VARIABLES

Top quality, general purpose capacitors. Steatite end frames with rotor bearing and stator support rods soldered directly to the ceramic frames—providing a virtually vibration-proof unit. Plate spacing, 030", bearings threaded 3/8"-32. Shaft diameters, 1/4". 13/6x13/6" panel space. Av. shpg. wt., 1 lb.

P SINGLE SECTION—ONE END FRAME

Stock No.	Mfr's Type	Max. Mmf	Mmf	Plates	EACH
75 L 911	167-3	11	2.8	3	1.80
75 L 912		27	3.5	7	1.90
75 L 913		51	4.6	13	2.10
75 L 914		75	5.7	19	2.30

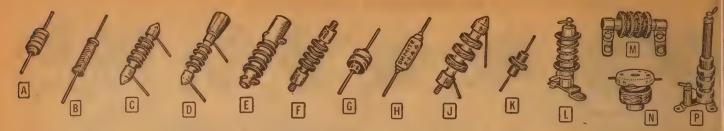
R BUTTERFLY

					A L ST THE
Stock No.	Mfr's Type	Mmf	Wimt	Plates	EACH
75 L 923 75 L 927 75 L 928	167-22	26	2.8 4.3 6.8	1.4	2.15 2.50 3.05

S DUAL SECTION

Stock	Mfr's	Max.	Min.	No. of	EACH
No.	Type	Mmf	Mmf	Plates	
75 L 932 75 L 943 75 L 944	167-52		5.0 6.5 9.8	7 13 25	3.75 4.15 5.20

L DIFFERENTIAL



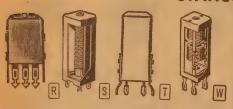
FAMOUS-NAME RF CHOKES FOR EVERY PURPOSE

R-175A is for transmitters with plate supply up to 3000 volts modulated or 4000 volts unmodulated; can be used on all bands from 80 through 6 meters. R-152 is ideal for high-power, 80-160 meter transmitters. R-154 is for use in 20-80 meter transmitters; has third mtg. foot and insulator that permits use of higher voltages; R-154U is same as R-154, but less foot and insulator. R-33 and R-50 series are pie-wound; R-33 types

have 2 sections, R-50 types, 3 or 4 sections. Types with suffix "U" have standoff insulator at one end; with "ST," threaded stud at each end. *Wound on powdered-iron form. The four highest frequency Ohmite chokes are on low power factor plastic cores; other three are on steatite tubes. §On standoff insulator for vertical mtg. ‡Millihenries. **Microhenries. Av. shpg. wt., 2 oz.

CALLE N.	1 000					, 2000	types		onemies.	Av. snpg.	vt., 2 oz.					
Stock No		Туре	Fig.		Ma	Ohms		S	tock No.	Mfr.	Туре	Fig	. I IMI	ı Ma	Ohm	SINET
6 G 5 6 G 6 6 G 7 6 G 8 6 G 9	National National National National National	R-33 R-33 R-33 R-33 R-50	G G G A	11** 50** 100** 750** 0.5	350 225 200 125 150	1.8 3.5 5.0 16 15	.36 .36 .36 .42	66666	G 520 G 521 G 522	National National Millen Millen Millen	R-300ST R-300ST 34100 34101 34103	FDJ	2.5 5.0 2.5 2.5	373 323 250 250	17 24 5 52.5 5 52.5	.80 .96 .48
61 G 160 61 G 161 61 G 162 61 G 168 61 G 169	National National National National National	R-50 R-50 R-50 R-60 R-60	A A A A	1.0 2.5 10.0* 2** 4**	135 125 115 1500 700	23 38 36 .06 .15	.42 .42 .72 .29	66666	G 524 G 525 G 526 G 527	Millen Millen Millen Millen Millen	34106 34300-25 34300-50 34300-100 34300-250	J K K K	2.5 1.0 25* 50* 100* 250*	* 250 * 250	13.5 3.4 5.2 7.4	.42 .42 .42
6 G 30 6 G 329 6 G 367 6 G 368 6 G 398	National National National National National	R-100 R-100 R-100 R-100U§ R-100U§	CCCDD	2.5 5.0 10.0 2.5 5.0	115 70 60 115 70	44 90 130 44 90	.57 .90 1.27 .74 1.04	66666	G 529 G 530 G 531 G 532	Millen Millen Millen Millen Millen	34300-250 34300-300 34300-500 34300-1000 34225 J300-100	K	300* 500* 1000* 25 100*	* 250 * 250 * 250	10.1 22.3 21.7 159	.42 .42 .42 .42 .84
6 G 399 6 G 495 6 G 496 6 G 497 6 G 498	National National National National National	R-100U§ R-100S§ R-100S§ R-100S§ R-100ST	DEEEEF	10.0 2.5 5.0 10.0 2.5	60 115 70 60 115	130 44 90 130 44	1.26 .99 1.32 1.49	66666	G 534 G 535 G 536 G 537	Millen Millen Millen Millen Bud	J300-250 J300-500 J300-1000 J300-2500 CH-926S	B B B B	250* 500* 1000* 2500* 2.5	* 50 * 50 * 50 * 50	6.2 14.4 23.7 41.3	.42 .42 .42 .42
6 G 499 6 G 500 6 G 501 6 G 502 6 G 503	National National National National National	R-100ST R-100ST R-152 R-154 R-154U	F F L	5.0 10.0 4.0 1.0 1.0	70 60 600 600 600	90 130 10 6.0 6.0	.99 1.12 2.31 2.31 2.01	66666	G 539 G 540 G 541 G 542	Bud Bud Bud Bud Bud Bud	CH-928S CH-929S CH-1222 CH-1224 CH-1225	M M N N	10 2.5 2.5 5.5	200 400 200 200	49 11 22 33	.59 .59 .59 .59 .59
61 G 504 61 G 505 61 G 506 61 G 507 61 G 508	National National National National National	R-175A R-300 R-300 R-300 R-300	PCCCC	145 0.5 1.0 2.5 5.0	800 400 400 375 325	5.0 7.0 11 17 24	3.56 .57 .57 .74	6	G 544 G 545	Bud Bud Bud Bud Bud	CH-1227 CH-1228 CH-1229 CH-1230	N N N N N N N N N N N N N N N N N N N	8.0 16 30 60 80	$ \begin{array}{c c} & 200 \\ \hline & 200 \\ & 190 \\ & 180 \\ & 175 \\ \end{array} $	59 88 130	.59 .59 .67 .73
61 G 509 61 G 510 61 G 511 61 G 512	National National National National	R-300U§ R-300U§ R-300U§ R-300U§	9000	0.5 1.0 2.5	400 400 375	7.0 11 17	.69 .77 .92		Stock No.	Mfr.	Туре	Fig.	**µ h	Ma	Freq., Mc	NET
61 G 514 61 G 515	National National National	R-300S§ R-300S§ R-300S§	DE EE	5.0 0.5 1.0 2.5	325 400 400 375	$\frac{24}{7.0}$ 11 17	1.02 .95 1.00 1.12	61	G 549 G 550	Ohmite Ohmite Ohmite Ohmite	Z-460 Z-235 Z-144 Z-50	H H H H	0.2 0.84 1.8 7.0	1000 1000 1000 1000	320-520 160-350 80-200 35-110	.42 .42 .42 .45
61 G 516 61 G 517 61 G 518	National National National	R-300S\$ R-300ST R-300ST	E F F	5.0 0.5 1.0	325 400 400	7.0 11	1.25 .63 .63	61 61	G 553	Ohmite Ohmite Ohmite	Z-28 Z-14 Z-7		21 44 84	600 600 1000	20-60 7-35 3-20	.56 .67 1.34
			STA	NCO	RRE	COI	IS AI	UD	IE TD	ANICEO	DAMEDO					

STANCOR RF COILS AND IF TRANSFORMERS



Miniature Transistor IF Transformers. Tuned, tapped primary; untuned secondary. Size, ½" sq. x ¾" high. Shpg. wt., 2 oz.

Stock No.	Туре	Ohms	Use	NET
61 G 555 61 G 556 61 G 557 61 G 558 61 G 559	RTC-9083 RTC-9084 RTC-9085 RTC-9086 RTC-9087	10K-1K 25K6K 25K-1K	Output Input	3.30

Miniature RF Coils. Shielded, iron-core. For compact receivers. For 365-mmf variables. *Series pad required for 455 kc; †pad required for 262 kc. 3/4x3/4x2". 3 oz.

	No.	Mfr's Type	Use	Freq. Range	NET
61661	G 561 G 562 G 563	RTC-8756 RTC-8757 RTC-8758 RTC-8631 RTC-8759	RF Osc. Ant.	140-425 kc 140-425 kc *120 mmf 540-1700 kc 540-1700 kc	1.68 1.68 1.68 1.05
61 61 61	G 566 G 567 G 568	RTC-8760 RTC-8761 RTC-8762 RTC-8763 RTC-8764	Osc. Ant. RF	*400 mmf †600 mmf 2.1-6.3 mc 2.1-6.3 mc *1600 mmf	1.50 1.53 1.50 1.50

Miniature Printed Circuit IF Transformers. Specifically designed for printed circuit applications; also excellent for new equipment design or as replacement transformers for receivers presently on the market. All have high gain and good selectivity with tuning from top or bottom of shield. Available in all standard IF frequencies. *With built-in diode filter capacitors. †For use in battery radios; †AC-DC radios: IS, in application column below, indicates interstage use. 3/4" square x 2" high. Shpg. wt., 3 oz.

Stock No.	Туре	Freq.	Application	NET EA.
61 G 570	RTC-8644	262 kc	Input Output Output* Input Output	1.95
61 G 571	RTC-8685	262 kc		1.80
61 G 572	RTC-8645	262 kc		1.95
61 G 573	RTC-8641	455 kc		1.65
61 G 574	RTC-8642	455 kc		2.64
61 G 575 61 G 576 61 G 577 61 G 578 61 G 579	RTC-8643 RTC-8681 RTC-8682 RTC-8683 RTC-8684	455 kc 455 kc 455 kc 455 kc 455 kc	Output* Input† Output† Input‡ Output‡	1.68 1.80 1.80 1.80
6 G 580	RTC-8546	4.5 mc	Input or IS	1.95
6 G 581	RTC-8619	4.5 mc	Discrim.	2.25
6 G 582	RTC-8621	4.5 mc	Ratio Detec.	2.52
6 G 583	RTC-9242	4.5 mc	Ratio Detec.	3.00
6 G 584	RTC-9243	4.5 mc	Ratio Detec.	2.55
61 G 585 61 G 586 61 G 587 61 G 588 61 G 589	RTC-9244 RTC-9046 RTC-9050 RTC-9053 RTC-9245	4.5 mc 10.7 mc 10.7 mc 10.7 mc 10.7 mc 44 mc	Ratio Detect. Input or IS Discrim. Ratio Detec. TV Convert.	3.00 1.95 2.25 2.25 2.10
6 G 590	RTC-9246	44 mc	TV 1st IF	2.10
6 G 591	RTC-8560	42.5 mc	TV 2nd IF	2.10
6 G 592	RTC-8562	45.5 mc	TV 3rd IF	2.10
6 G 593	RTC-8564	44 mc	TV 4th IF	2.10

See Manufacturer's Index for Additional Listings of Stancor Products

Miniature IF Transformers. Shell core permeability tuned transformers for experimental use and general replacement in "personal" radios. Offer exceptional gain and selectivity. Tune from top and bottom of shield. *With diode filter. †For battery radios; ‡AC-DC radios. IS indicates interstage use. With mtg. clip. ¾" square x 2" high. Wt., 3 oz.

	v _s , cup.	/# odam		mgir. wt., 5	02.
	Stuck No.	Туре	Freq.	Application	NET EA.
6			262 kc	Input	1.80
6	I G 595	RTC-8639	262 kc	Output	1.80
6		RTC-8640	262 kc	Output*	1.80
6		RTC-8632 RTC-8633	455 kc	Input	1.80
	G 599	RTC-8634	455 kc	Output	1.80
	G 600	RTC-8675	455 kc 455 kc	Output*	1.50
	G 601	RTC-8635	455 kc	Input† Output†	1.80
6		RTC-8636	455 kc	Inputi	1.80
6		RTC-8637	455 kc	Output#	1.80
6	G 604	RTC-8676	455 kc	IF	1.50
6			455 kc	Tapped Pri.	1.50 2.25 2.55
6		RTC-8678	455 kc	Discrim.	2.55
6		RTC-8686	1500 kc		1.80
6		RTC-8687	1500 kc	Output	1.80
61		RTC-8599	10.7 mc	Input or IS	1.95
6		RTC-8665 RTC-9052	10.7 mc	Discrim.	2.25
6		RTC-8600	10.7 mc	Discrim. Ratio Detec.	2.50
6		RTC-9054	10.7 mc	Ratio Detec.	2.40
61		RTC-8545	4.5 mc	Input or IS	2 25
61		RTC-8618	4.5 mc	Discrim.	2.25
61	G 616	RTC-8620	4.5 mc	Ratio Detec.	2.25
61	G 617	RTC-9249	21.25mc	Input or IS	2.88
61	G 618	RTC-9250	21.25mc	Discrim.	2.25 2.25 2.25 2.88 2.40
61	G 619	RTC-9251	21.25mc	Ratio Detec.	2.40
61	G 620 G 621	RTC-8557	44 me	TV Convert.	1.80
61	G 621 G 622	RTC-8558 RTC-8559	44 mc	TV First IF	1.80
61	G 623	RTC-8561	42.5 mc	TV Second IF TV Third IF	1.80
61	G 624	RTC-8563	44 mc	TV Fourth IF	2.25
-			17 1110	routti If	1.00

J. W. MILLER COILS, CHOKES, INDUCTORS, AND TRANSFORMERS

FM STEREO MULTIPLEX INDUCTORS

New units designed specifically for use in FM stereo multiplex tuners and receivers. Units provide necessary separation of AM modulated (L-R) suppressed carrier signal, L+R audio signal, and 19-kc pilot sub-carrier. Generate 38-kc signal and 19-kc pilot sub-carrier. Combine L-R signal into a suitable matrix with L+R signal in such a manner that L signal appears at one output terminal and R signal at another. 3/4" square x 1/3/2" high. Shpg. wt., 3 oz.

Stock No.	Type	Description	EA.
61 G 001 61 G 002 61 G 003	1352 1353 1354	Low Pass Filter Series Band Pass Filter Shunt Band Pass Filter Locked Oscillator 19 kc Output Transformer 38 kc	1.95 1.80 1.86 1.25

CTC COILS, COIL FORMS



For broadband RF amplifiers, TV traps, HF circuits, etc. All have HF paper base phenolic bodies, except teeramic. Vertical mounts, except 2270 and 2271, horizontal. §Unassembled coil forms. All parts are non-ferrous and electro-plated. Av. wt., 4 oz.

Stock No.	Туре	Me	L x Dia.	NET
61 G 005 61 G 006 61 G 007 61 G 010	LSM LSM LSM LSM	1 3 5 10	27/ ₃₂ ×1/4" 27/ ₃₂ ×1/4" 27/ ₃₂ ×1/4" 27/ ₃₂ ×1/4"	1.12
61 G 014 61 G 015 61 G 016 61 G 019	LSM LSM LS3 LS3	30 60 1 3	27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4" 1 1/8 X 3/8" 1 1/8 X 3/8"	1.00 .93 1.12
61 G 020 61 G 021 61 G 022 61 G 023	LS3 LS3 LS3 LS3 LS3	5 10 30 60	1 ½ x 3/8" 1 ½ x 3/8" 1 ½ x 3/8" 1 ½ x 3/8" 1 ½ x 3/8"	1.07 1.03 1.00
61 G 024 61 G 025 61 G 026 61 G 027	2060-1† 2060-2† 2060-3† 2060-4†	2.0-3.7 3.5-7.0 6.5-10.6 10-18	27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4"	1.06 1.06 1.16
61 G 028 61 G 029 61 G 030 61 G 031	2060-5† 2060-6† 2060-7† 2060-8†	16-30 28-63 61-122 120-243	27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4"	1.23 1.32 1.42 1.51
61 G 032 61 G 033	2060-9† 2060-10†		27/ ₃₂ X 1/4" 27/ ₃₂ X 1/4"	1.59

COIL FORMS FOR 1-20 MC

Stock No.	Туре	L x Dia.	NET
61 G 034	PLS5-2C4L/B†	1½6X ³ /8"	.84
61 G 035	PLS6-2C4L/E†	27/32X ¹ /4"	.75
61 G 036	PLS7-2C4L/K†	1½6X ¹ /2"	.91
61 G 037	SPC-1A-4L§	3/4X ²³ /64"	.26
61 G 038	SPC-2B-4L§	3/4 x27/64"	.26
61 G 039	SPC-11A-4L†§	5/8 x13/32"	.29
61 G 040	SPC-12A-4L†§	13/16 x13/32"	.29
61 G 041	2270-2†§	5/8 x3/8"	.74
61 G 042 61 G 043 61 G 044 61 G 045	2271-2†§ LSM-E LS3/B LS4/K	13/16X3/8" 27/32X1/4" 11/8X3/8" 2x1/2"	.74 .46 .46
61 G 046	PLS5/B†	1½6X ³ /8"	.64
61 G 047	PLS6/E†	27/32X ¹ /4"	

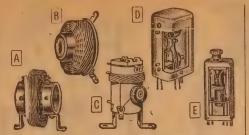
COIL FORMS FOR 20-50 MC

Stock No.	TYPE	L x Dia.	NET
61 G 048	PLST-2C4L/H†	19/32 x 3/16"	.68
61 G 049	PLST-2C4L/P†	19/32×3/16"	.68
61 G 050	PLS5-2C4L/N†	1½16×3/8"	.84
61 G 051	PLS6-2C4L/Ot	27/32X 1/4"	.75
61 G 052	PLS7-2C4L/Q†	111/16x1/2"	.91

MORRIS "COILMASTER"



Accurate, easy-to-use hand-operated coil winder will produce self-supporting, universal and honeycomb coils; also solenoids, single-layer coils, etc. It's a big time-saver and gives your work a professional appearance. Indicator counts coil turns. Unit is easily adjustable for pi spacing and various diameter coil forms. Extremely versatile—accepts No. 22 to No. 40 wire; 3 cams and 4 gears permit winding virtually all types of coils. Less wire, coil forms. Base size, 5x5". Shpg. wt., 4 lbs.
61 G 053. NET



DUO-LATERAL FILTER CHOKES

A Effective line filters. Duo-lateral wound for low distributed capacity. Ideal for use in AC lines to filter RF or noise pulses. Type 7825 is 11/2x13/4" wound on bakelite form, Type 7827 is 21/2x4", wound on ceramic forms.

Stock No.						
61 G 054 61 G 055	7825	2	.7	5	.600	1.62
61 G 055	7827	10	.15	16	1.370	4.12

CENTER-TAPPED CHOKE

B Type 691-T. Duo-lateral wound, single section RF chokes wound with silk-covered enameled copper wire. Unshielded air core type; wound on impregnated ceramic dowels; windings impregnated against moisture. Inductance, 20 mh ±5%; DC resistance, 100 ohms; current rating, 125 ma. 11/8x3/8" high. Wt., 4 oz. 97

CAPACITY-OPERATED RELAY COIL

Type 695. For use in alarm systems, window displays, etc. Supplied with typical wiring diagram. 1/8 x2 1/4" high. Wt., 4 oz. 2.20

100 KC HI-Q IF TRANSFORMER

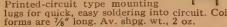
Type 1890-P1. Iron-core transformer has high Q windings for exceptionally sharp selectivity characteristics. Provides high gain and excellent stability. For input or interstage use. $3/4 \times 1\% \times 1\%$. Wt., 4 oz. 5.88

BEAT FREQUENCY OSCILLATOR COIL

Type 612-M5. Mica tuned air core. Frequency, 132. 127-137 kc range. Has knob for adjustment. 31/4x13/6x13/6". Wt., 4 oz. 2.50

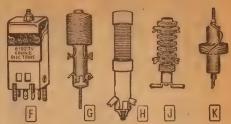
PRINTED CIRCUIT RF CHOKES

High-quality, air-core RF chokes for use on printed circuit boards. Available in a wide range of inductances for transmitters, receivers, test equipment, etc. Printed-circuit type mounting lugs for quick, easy soldering into circuit. Coil forms are 1/8" long. Av. shpg. wt., 2 oz.



forms are 78 long. 111. bapa.										
Stock No.	Type	Mh	Ohms	Ma	Dia.	EACH				
61 G 061	970	1	17.2	125	11/16"	.56				
61 G 062	971	1.2	19.8	125	23/32"	.56				
61 G 063	972	1.5	21.8	125	3/4"	.56				
61 G 064	973	1.8	24.7	125	3/4 "	.59				
61 G 065	974	2.2	27.4	125	25/32"	.59				
61 G 067	975	2.7	31.2	125	13/16"	.59				
61 G 068	976	3.3	34.8	125	13/16"	.62				
61 G 069	977.	3.9	38.9	125	27/32"	.62				
61 G 070	978	4.7	43.2	125	7/8"	.62				
61 G 071	979	5.6	48	125	29/32"	.62				
61 G 072	980	6.8	53.6	125	15/16"	.65				
61 G 073	981	8.2	60.8	100	27/32"	.65				
61 G 074	982	10	- 68	100	1/2"	.71				
61 G 075	983	12	77.	100	29/32"	.73				
61 G 076	984	15	87.7	100	15/16"	.76				
61 G 077	985	18	97.9	100	31/32"	.79				
61 G 078	986	22	108	75	31/32"	.91				
61 G 079	987	27	121	75	11/16"	.94				
61 G 080		33	209	75	1"	1.00				
61 G 081	989	4 39	231	75	11/16"	1.03				
61 G 082	990	47	263	50	29/32"	1.06				
61 G 083	991	56	292	50	15/16"	1.12				
61 G 084	992	68	326	50	1"	1.18				
61 G 085		82	368	50	11/32"	1.23				
61 G 086	994	100	394	50	11/16"	11.29				

MIDGET RF COILS



SOUND DETECTOR AND OSCILLATOR **TRANSFORMERS**

Quality TV components. Type 1468 is a sound ratio detector transformer for 4.5 mc IF in sets using inter-carrier sound system; will provide good operation with only one or two stages of amplification preceding it. Type 6194 has two coupled windings: one tapped for horizontal oscillator circuit; the other center-tapped and balanced for a sine-wave discriminator arrangement (synchrolock). Type 6183 has dual windings for Sync. Frequency and Phase circuit. All have aluminum shields with 6-32 spade bolt mtg. Sizes: Type 1468, 11/6x2 1/87; 6194 and 6183, 11/6x11/6x21/87. 5 oz.

Stock	Mfr's		NET
No.	Type		EACH
61 G 089 61 G 090 61 G 091	6194	Horizontal Oscillator Horizontal Oscillator Ratio Detector	

SYNC STABILIZER (RINGING) COIL

G Type 6210. Has bakelite form with \(\frac{7}{16} \) mounting clip. 16-42 mh range. Size, \(\frac{3}{4} \) x \(\frac{2}{1} \) 2'/2". Shpg. wt., 2 oz. \(\frac{2}{16} \) G 092........... NET 1.62

HORIZONTAL LINEARITY AND WIDTH CONTROLS

Iron-core variable inductance coils for horizontal sweep circuits. Permit adjustments over a wide inductance range to obtain the proper match for best operating characteristics. *Has AGC winding. Mtg. clip fits *½" hole; '/6" hole with adapter supplied. ½x2½" long on phenolic forms. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Millihenries	NET
61 G 093	6313	.5-5	1.29
61 G 094	6314	2.0-18	1.21
61 G 095	6315	4.0-30	1.29
61 G 096	6316*	4.0-30	1.76
61 G 097	6318	.2-3	1.09
61 G 098	6319	15.0-60	1.62
61 G 099	6322	1.5-10	1.21
61 G 100	6324	60-130 tapped	1.62

HIGH-VOLTAGE RF POWER SUPPLY TRANSFORMERS

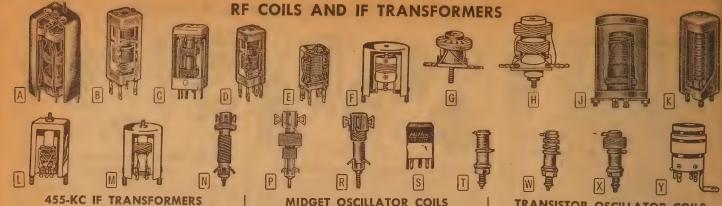
Type 4525. RF power supply transformer for use in TV receivers, cathode ray oscilloscopes, etc. Provides voltage up to 5,000 v. DC. Size, 11/4" dia. x 33/4" high. 4 oz. 5.88

VIDEO PEAKING AND FILAMENT CHOKE COILS

Type 6175 is filament choke. Reduces stray coupling, feedback, etc. Others are video peaking coils for proper bandwidth and wave shape of video signals. Coils without shunt resistor wound on plastic forms; shunt types wound on resistor. Over-all size: Type 6175, 7/8×9/12" diameter; all other types, 3/8×3/6" diameter. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	μhys	Shunt	NET
6 G 03	6172	73	None	.56
6 G 04	6153	120	None	
6 G 05	6174	500	None	
61 G 106	6175	0.8	None	.56
61 G 107	6152	20	None	
61 G 108	6176	36	None	
61 G 109	6177	93	None	.56
61 G 110	6178	120	22 K	
61 G 111	6180	180	None	
6 G 2	6154	200	None	.56
6 G 3	6181	250	None	
6 G 4	6155	300	None	

J. W. Miller Coils and IF Transformers.



Double-tuned air-core, universal input, interstage or output transformers. Universal wound primary and secondary tuned by mica insulated compression-type trimmers for minimum temperature-capacity drift. RETMA (EIA) leads. Size, 11%x1%x2%". Wt., 4 oz.

Stock No.	Туре	Application	EA.
60 G 739 60 G 740 60 G 741 60 G 512	512-C2 512-C3	Input IF Interstage IF Full-wave output IF Half-wave output IF	1.94

MINIATURE IF TRANSFORMERS

B Shell core, permeability tuned IF transformers. For experimental and general replacement use. Tunable powdered iron cores; tuning from top and bottom of shield. *Built-in diode filter capacitors. Size: ¾" sq. x2". With mtg. hardware. Shpg. wt., 4 oz.

No.	Type	Freq.	Use	NET
60 G 727		455 kc	IF Input	1.59
60 G 728		455 kc	IF Output	1.59
60 G 787		455 kc 455 kc	IF Output*	1.68
60 G 717			Input (Batt.) Output (Batt.)	1.59
60 G 718				
60 G 719		455 kc	Input(AC-DC) Outpt.(AC-DC)	1.59
60 G 729	12-H1	262 kc	IF Input	1.71
60 G 731		262 kc	IF Output	1.71
60 G 788	12-H6	262 kc	IF Output*	1.76
60 G 732			Input or Inter.	1.91
60 G 733	1464		Discriminator	2.20
60 G 734	1465		Ratio Detect.	2.29
60 G 789	6203	4.5 mc	Input or Inter.	
60 G 790	6204			2.20
60 G 791	02031	4.5 mc	Ratio Detect.	2.20

MIDGET IF TRANSFORMERS

Air-core mica trimmer tuned IF's. Excellent gain and selectivity. 6-32 spade-bolt mtg. 11/8x11/8x2". Shpg. wt., 4 oz.

No.	Туре	Freq.	Use	EA.
60 G 735 60 G 736 60 G 737 60 G 738	112-C2 112-C3	455 kc 455 kc 455 kc 455 kc	Interstage CT Output	1.94

SUBMINIATURE 455KC IF TRANSFORMERS

Extremely small IF transformers with excellent gain and bandwidth characteristics. Ferrite-shell cores provide high efficiency. Pri. and sec. mica-trimmer tuned. Only ½" square by 1½" high. Shog. wt., 3 oz. 60 G 860. Type 10-C1. Input. NET 60 G 861. Type 10-C2. Output. EA..... 1.65

TRANSISTOR IF TRANSFORMERS

Subminiature. A tiny 455-kc IF transformer with cup-core construction for top performance. Only %" square by %" high. Primary impedance, 25,000 ohms; secondary impedance, *600 ohms, †1000 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz. 60 G 802. Type 9-C1*. Input. NET 2.35

Miniature. High-quality 455-kc IF transformer for compact transistor receivers. Primary impedance, 25,000 ohms; secondary impedance, *600 ohms, †1000 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz. 60 G 896. Type 2041*. Input. NET 60 G 973. Type 2042†. Output. EA. 2.06

BANDPASS COUPLING COIL

MIDGET OSCILLATOR COILS

Cover 540-1600 with a 365 mmf capacitor. Series 5480 (Fig. H): single-section secondary with high-impedance primary; for use with pentagrid converters. Series 5481 (Fig. G): no primary, secondary tapped for cathode return; for use with 6BE6 and similar mixers, and with separate oscillator and mixer. Size, 1x1". Shpg. wt., 4 oz.

Stock No.	Mfr's Type		Padder	NET
60 G 743	5480-C	455 kc	.0004 mfd	
60 G 744	5481-C	455 kc	.0004 mfd	112
60 G 981	5481-K	175 kc	.001 mfd	1.12

DELUXE BANK-WOUND COILS

MINIATURE RF COILS

Shielded iron-core coils for compact receivers. For 365 mmf tuning capacitors. Antenna and osc. coils have tapped sec. 34" sq. x 2". *Requires series pad. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Use	KC Range	NET
60 G 706 60 G 707 60 G 708	A-121-RF	Antenna RF Osc. 455 kc	540-1700 540-1700 *400 mmf	1.47

ADJUSTABLE RF COILS

Compact, variable-inductance iron-core coils for replacement use. Shielded type. Use with 250-450 mmf variable capacitors. Oscillator coils have tapped secondary. Size, 13/8 x 13/8 x 2 ½". *Indicates IF frequency. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Use	KC Range	NET
60 G 748 60 G 749 60 G 752	73-RF		500-1800 500-1800 *100-550	

ANTENNA AND RF COILS

Untuned. Broadly self-resonant from 540 to 1700 kc. Does not require additional tuning capacitor. Can size, 2½x1¾". Shpg. wt., 4 oz.

HIGH "Q" BROADCAST RF COILS

High-efficiency, unshielded, iron-core coils. Adjustable core. Range indicated obtained using 365 mmf variable capacitor. Mount in 1/4" hole. *Padder values shown for 455 kc IF. Size: 3/8×2". Shpg. wt., 4 oz.

Stock	Mfr's	Use	KC	NET
No.	Type		Range	EACH
60 G 862 60 G 863 60 G 864 60 G 865	A-5495-RF A-5495-C			1.62

MINIATURE ADJUSTABLE RF COILS

Variable-inductance RF coils. Use with tuning capacitors of 250 to 450 max. capacity. Type 70-OSC coil has tapped secondary. 70 series installed self-supported. 71-OSC has 2-tap primary. Both track 100 to 550 kc IF. Max. size: 1/2" high. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Use	KC Range	NET
60 G 866	70-A	Ant.	540-1600	1.12
60 G 867	70-RF	RF	540-1600	
60 G 868	70-OSC	Osc.	540-1600	
60 G 869	71-OSC	Osc.	540-1600	

TRANSISTOR OSCILLATOR COILS

R Type 2020. Use in one transistor osc. circuit. For 365 mmf capacitor, 455 KC IF. 5/8x11/8". Shpg. wt., 3 oz. 60 G 895. NET. 1.62

Type 2022. Similar to above, except for use with variable capacitor 78-100 mmf max.

SUBMINIATURE TRANSISTOR OSCILLATOR COIL

Type 2021. Shielded. For use in converter circuits using one transistor for oscillator, mixer. Use with 100 mmf variable capacitor. Size, %" high x 3%" sq. Shpg. wt., 2 02. 2.06

ADJUSTABLE CERAMIC RF COILS

Adjustable coils for the most exacting requirements. Wound on silicope-impregnated ceramic forms. Tuned by powderediron core. Fig. T is single-layer wound, Fig. W is twin-pi wound, Fig. X is single-pi wound.

Standard. High "Q" units with a wide range of inductances. Require ½" mtg. hole. Form size: %x1½". Av. shpg. wt., 3 oz.

No.	Туре	Fig.	Microhenries	NET
60 G 982	4400		Form only	1.12
60 G 983	4403	T	0.9-1.6	1.59
60 G 984	4404	T	1.5-3.2	1.62
60 G 985	4405	T	3.1-6.8	1.65
60 G 986	4406	T	6.7-15	1.71
60 G 987	4407	X	14.8-31	1.76
60 G 988	4408	X .	30-69	1.79
60 G 989	4409	X	68-130	1.85
60 G 990	4410	X	126-250	1.88
60 G 991	4411	X	245-475	1.91
60 G 992	4412	X	450-800	1.94
60 G 993	4413	W	750-1400	1.97
60 G 994	4414	W	1300-2100	1.97

Miniature. For limited space. 1/6" mtg. hole. Form size: 1/2 %". Av. shop wt 3 oz.

60 G 870	4500		Form only	11.03
60 G 871	4502 4503	Ŧ.	1.0-1.6 1.6-2.8	1.47
60 G 873	4504	T	2.8-5	11.56
60 G 874	4505	T	5-9	1.62
60 G 875	4506 4507	W	9-16	1.68
60 G 877	4508	w	16-24 24-35	11.73
60 G 878	4509	W	35-60	1.79
60 G 879	4511	X	60-120	1.82
60 G 880 60 G 881	4512 4513	X	110-200	11.85
60 G 882	4514	XX	190-330	11.88
00 0 0021	Z017	Δ	320-500	11.91

Subminiature, For ultra-compact equipment.

		. 10 41	. / 8 . * * * * , 0 02.	
60 G 995 60 G 996 60 G 997 60 G 998	4300 4301 4302 4303	T T	Form only 0.17-0.27 0.27-0.41 0.40-0.65	.03 .47 .47 .53
60 G 999 60 G 927 60 G 928 60 G 929	4304 4305 4306 4307	T T T T	0.64-0.95 0.94-1.55 1.5-2.57 2.5-4.40	1.56 1.62 1.68 1.73
60 G 930 60 G 931 60 G 932 60 G 933	4308 4309 4310 4311	T X X	4.3-7.15 7.1-12.5 12.4-20.3 20.1-32.8	1.76 1.79 1.82 1.85
60 G 934 60 G 941 60 G 942 60 G 943	4312 4313 4314 4315	X X X X	32.5-51.5 51-102 101-180 178-300	1.88

TYPE 20 ECONOMY TRF COILS

Unshielded TRF coils for 540 to 1750 kc. For use with 365 mmf variable capacitor. With L mtg. bracket. Low impedance primary on adjustable sleeve over secondary. 1½"x2" high. Shpg. wt., 3 oz. 60 G 753. 20-A. Antenna Coil. NET....82 60 G 590. 20-RF. RF Coil. NET....82

Belden Wire and

RUBBER-COVERED MICROPHONE AND SHIELDED POWER SUPPLY CABLE

Recommended for greater abrasion resistance and extra flexibility. Especially suited for a nstallations where cable must make tight bends around corners or lie perfectly flat. 8414 s extra flexible and limp; 8428 has heavy-duty neoprene jacket; 8406 and 8413 are minature-sized cables. *Order on standard length spools and save. For price of continuous ootage over 100′, use PER FOOT column in table below. Be sure to specify footage desired on your order.



SINGLE



desired	If It's No. AWG Cap. O.D. Wkg. Wt., Lbs. Stock STANDARD SPOOLS*														
Mfr's Type	No. Cond.	AWG Stranding	Cap. Mmf	O. D. Inches	Wkg. Volts	Wt., Lbs. per 100'	Stock No.	15′	25′	50′	100′	250′	500′	1000′	FOOT
8410 8412	1 2	25(7x33) 20(26x34) 20(26x34)	33 42 45	.245 .268 .256	3000 600 600	5½ 4	47 W 444 47 W 464 47 W 500	1.50	2.06 2.30	3.82 4.21 3.92	7.20 8.08	16.90	33.81 37.14 31.60		.08 .09 .08
8414 8423	3	20(26x34) 20(26x34)	50	.277	600	5 ³ / ₄	47 W 463 47 W 473			4.70 5.54	10.39	22.05	50.28	88.20	.10
8424 8425 8426	5 6	20(26x34) 20(26x34)	44 40	.323	600	73/4	47 W 483 47 W 493				12.94 15.43 16.90	31.60 38.66 41.16			.16
8427	7 8	$\frac{20(26x34)}{20(26x34)}$	40	.360	600	11 614	47 W 509 48 W 837 47 W 468				17.64	44.10	49.24		.18
8428 8413 8406	2 2 3	18(41x34) 24(45x40) 24(45x40)	47 38 43	.295 .185 .223	300 300 300	61/4 21/2 3	47 W 646 47 W 288	1.47	2.20	3.92	7.35	17.64 22.05	35.28 44.10		.08

VINYL PLASTIC-COVERED MICROPHONE AND SHIELDED POWER SUPPLY CABLE

Feature lower capacitance values and lower loss figures than standard rubber-covered cables. Resist ozone deterioration; have high resistance to oil, ga oline, and other chemicals' solvent action. All are relatively light weight with small diameters. Type 8411 is especially suited for

use with lapel or lavalier microphones. 8420 is a miniature type cable. *Order on standard length spools and save money. For price of continuous footage over 100', use PER FOOT column in table below. Be sure to specify the footage you desire on your order.

			10	0.0	2011	1844 B ba	Charle			STAN	DARDSP	OOLS*			PER
Mfr's	No. Cond.	AWG Stranding	Cap.	O. D. Inches	W kg.	Wt., Lbs. per 100'		15'	25′	50′	100′	250′	500′	1000′	FOOT
8401 8411	1 1	25(7x33) 25(7x33)	25 34 18	.200 .144 .231	5000 3500 1000	2 ½ 1 3/4	47 W 564 47 W 604 47 W 456	.70	1.18	2.30 1.71 3.18	4.21 3.09 5.73	8.82 6.57 12.89	17.64 13.08 25.72		.05 .04 .06
8422 8403	3	22(16x34) 20(26x34)	25	.245	600	5	47 W 558	1.42		3.53	7.50	16.17	33.07	74.97	.07
8404 8405 8420	5 2	20(26x34) 20(26x34) 24(45x40)	25 25 20	.255 .275 .178	600 600 500	5½ 6 2¼	47 W 567 47 W 501 47 W 635	1.47	2.20	3.33	6.27	22.78 16.17	44.83 29.40	89.67	.07

RETRACTILE (COILED) MICROPHONE AND TELEPHONE CABLE

Rugged coiled cables; have tinned cadmium-bronze conductors. All mike cables have braided shield except 8415, 8496, 8497 have one shielded conductor; 8494 and 8495 are unshielded telephone cords with spade terminals and strain relief. Shore we also be a specific strain relief. Shore we also be a specific strain relief. Shore we also be a specific strain relief.

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Mfr's Type	No. Cond.	Description	Jacket	AWG Stranding	O.D. Inches	From	To	Stock No.	NET EACH
8415 8497 8499 8494	3 1 4	Microphone Cable Microphone Cable Microphone Cable Telephone Cord	Neoprene Neoprene Neoprene Vinyl	23(21x36) 23(21x36) 24(45x40) 23(21x36)	.250 .250 .160 .245	11 ½" 11 ½" 7 ½" 10"	6' 6' 4' 4½'	47 T 275 47 T 279 47 T 286 47 T 276	1.13 1.14 .73 1.17
8495 8496	3	Telephone Cord Microphone Cable	Vinyl Vinyl	23(21x36) 23(21x36) 24(45x40)	.220 .250 180	10"	4½' 6' 4'	47 T 277 47 T 278 47 T 285	.99 .99 .71



TELEPHONE

STANDARD AND MINIATURE BROADCAST AUDIO CABLES

Two-conductor, color-coded broadcast cables. With spiral-wrapped tinned copper shields, except 8437 and 8441 which have braided shields; 8450 and 8451, spiral-wrapped aluminum-"Mylar" shields. All have

tinned drain wires. *Save by purchasing standard spools of 100, 500 and 1000 ft. lengths. Specify footage desired on order.

	u 0101, -p		100	14/1		Wt., Lbs.	Stock	NE	TPRIC	E*	PER
Mfr's Type	Туре	AWG Stranding	O.D. Inches		Jacket	per 100'	No.	100′	500′	1000′	FOOT
8436 8437 8441 8440 8450 8451	ABC CBS CBS Standard Miniature Miniature		.180 .200 .210 .185 .118 .135	100 200 200 100 200 200 200	Black Vinyl Black Vinyl Black Vinyl Chrome Vinyl Black Vinyl Black Vinyl	31/2 3 11/2	48 W 859 48 W 886 49 W 841 48 W 889 49 W 373 49 W 374	2.50	20.58 17.64 20.87 20.58 10.29 13.52	41.16 41.16 41.16 20.58 26.46	.055 .045 .055 .055 .035





MINIATURE CABLE

HI-FI, STEREO AND PHONO CABLES

Cables with stranded, tinned copper conductors, vinyl or rubber insulated. Feature extreme flexibility. 8421 is hi-fi connecting cable with spiral wrap; all others are phono pickup arm cables. 8419 and 8429 are

for stereo heads. *For price of continuous footage over 100', use PER FOOT price column in table below. State desired footage on order.

Spirar W	rap, an othero a	i prom	1	1	1		1	STAN	DARI	D SPO	OLS*		PER	
Mfr's Type	Jacket	No. Cond.	AWG Stranding	O.D.	Wt., Lbs. per 100'	Stock No.	10′	25′	50′	100'	250′	500′	FOOT	-
8421 8431 8430	Chrome Vinyl Rubber Vinyl	1 1 2	25(7x33) 24(16x36) 32(7x40)	.180 .095 .050	2 1/4 3/4 1 1/4	47 W 617 47 W 613 47 W 618	.52 .52	1.18 .99 .67	2.30	3.67	8.33	14.41	.07 .06 .06	
	#8430 cables to	r max. c	hannel separa			annel.		1 1 06			7.50		.08	=
8429	Vinyl o #8429 cables for	2	32 (7x40)	1 .057	for each ch	47 W 619	.67	1.00		1	7.50		.00_	DI
8419	o #8429 cables to	1 3	$\frac{1}{32(7 \times 40)}$	063	11/2	47 W 620	.73	1.25			8.82		.09	1 1
	<u> </u>		PETER CERV	105 000	DC AND	ALU TIDI C	CONDI	CTOP	CAR	I ES				meno



HI-FI CABLE



HONO CABLE

RUBBER-JACKETED SERVICE CORDS AND MULTIPLE CONDU

Cords and cables for appliances, power tools, P.A. systems, speakers, remote control circuits, etc. Max. rating: 300 v. at: -60° C. Have rubber insulation; black rubber

jackets; color-coded, stranded copper conductors. *For price of continuous footage over 100', use PER FOOT column in table below. Specify desired footage.

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				T	O. D.	Wt., Lbs.	Stock	1	S	TANE	DARD	SPOO	LS*		PER
Mfr's Type			AWG Stranding	Cond.		per 100'	No.	15'	25′	50′	100'	250′	500′		FOOT
8452 8478 8472	SV SJ SJ	2 2 2	18(41×34) 18(41×34) 16(65×34) 14(41×30)	Bare Bare Bare	.245 .299 .325 .360	51/3	47 W 413 47 W 404 47 W 408 47 W 502		1.62		5.29 7.01	10.14 13.23 16.54 20.95		52.92	.07 .08 .09
8474 8453 8454 8455	SV	3 4 5	18(41x34) 18(41x34) 3—20(26x34); 2—18(41x34)	Tinned Tinned	.265		47 W 423 47 W 433 47 W 443	1.42			7.06	18.37	30.87	67.62	.09

POSJ AND POT TYPE LAMP CORD

continuous footage over 100', use PER FOOT column in table. Specify footage. Two-conductor lamp cord with parallel No. 18 bare stranded copper conductors. Jackets are polarity ribbed. U.L. Approved. *For prices of

		1		1 2044	Charle		5	STANDARI	D SPOOLS*		PER
Mfr's Type	Jacket	Color	U.L. Type	Wt., Lbs.	Stock No.	25′	100'	250′	500′	1000′	FOOT
POSJ POSJ POT POT POT	Rubber Rubber Vinyl Plastic Vinyl Plastic Vinyl Plastic Vinyl Plastic	Brown Black Brown Black Gray White	SP-1 SP-1 SPT-1 SPT-1 SPT-1 SPT-1	3333333	48 W 763 48 W 773 48 W 766 48 W 762 48 W 786 48 W 767	.73 .73 .63 .63	2.70 2.70 2.33 2.33 2.33 2.33	5.00 5.00 3.40 3.40 3.40 3.40	9.40 9.40 6.30 6.30 6.30 6.30	17.50 17.50 11.90 11.90 11.90	.03 .025 .025 .025

VINYL-COVERED PLASTIC-INSULATED CABLE



Top-quality chrome vinyl jacketed intercom cable with multiple, non-paired, plastic insulated conductors. Especially suited for permanent installation of speakers, control and intercom circuits, as well as other applications requiring a highly durable, lightweight cable. Conductors are made of flexible, tinned copper stranded wire, with color-coded vinyl plastic insulation, all cabled together and enclosed in an overall chrome vinyl plastic jacket. Types shown with an * have conductors are not 22 stranded (7x30) wire. Types shown with an † have two conductors of No. 18 stranded (16x30) wire; the other conductors are No. 22 stranded. Types shown with an § have conductors which are all No. 18 stranded (16x30). All types are waterproof, oil, weather and tear resistant. Cables are flexible and easily stripped. For price of continuous footage in odd lengths over 100 feet, use the "PER FT." price column in table below. Buy in standard spool lengths and save. Be sure to indicate footage desired on your order.

Mfr's Stock Control of the price of continuous footage in odd lengths.

Mfr's		Cond.	OD	Lbs.,	ST	AND	ARD	SPOO	LS‡	PER
Туре	No.	Conu.	0. 0.	100 ft.	15'	25'	100'	500'	1000'	FT.
	47 W 362		.150"			.81	2.43	9.21	18.38	.04
	47 W 372		.168"	21/4		.96	2.94	12.15	24.26	.05
	47 W 382		.180"			1.14	3.63	14.70	29.40	.055
	47 W 312		.222"		1.03		5.29	22.79	45.57	.08
18447	47 W 322	7	.246"	41/2	1.13		6.03	25.73	51.45	.09
†8448	47 W 332	8	.251"	43/4	1.18		6 27	28.67	57 33	00
	47 W 342		.261"		1.27		7.01	31.61	63.21	·ĭń
	48 W 223	10	.260"	51/4				32.34		
*8457	48 W 225	12	.260"					34.55		
88465	48 W 227	5	.272"	53/4					-	
	48 W 229		.320"	71/4		* *, * *		27.20 36.02		
	48 W 233		.375"	91/2				47.78		
80107	10 11 233	- 1	.010	-72		2001	10.00	47.70	72.22	. I Z

SHIELDED P.A. AND SOUND SYSTEM CABLE



Variety of gauges, insulations, shieldings and jackets for PA and intercom use. All have tinned copper conductors except 8799, enameled copper. *Polyethylene insulated conductors, aluminum "Mylar" wrapped shield, stranded tinned copper ground wire. \$Chrome vinyl jacket. \$Spiral-wrapped tinned shield. ‡Braided tinned shield as jacket. †Vinyl insulated conductors. 8432 has rubber insulated conductors with cotton braid. 8799 has cotton wrap, braid. No. 22 stranded conductors: 8761, 8771 (7x30). No. 20 stranded: 8432 (10x 30), 8762, 8772 (7x28). No. 18 stranded: 8760, 8770 (16x30); 8789, 8790, 8791 (7x26). No. 18 solid: 8799. No. 22 solid: 8731. No. 16 stranded: 8779, 8780 (19x29). For price of continuous footage over 100', use the price state desired footage.

Mfr's	Stock	Cond.	O D	Lbs.,	PER	ST	D. SPO	OLS
Туре	No.	oona.	0. 5.	100 ft.	FT.	100'	500'	1000'
18432‡	48 W 884	2 3	.225"	31/2	.075		28.67	57.33
[8731†#§	47 W 000		.178″	21/2	.04		13.97	27.93
8760*# 8761*#	48 W 753 48 W 754	2	.222"	3	.05		18.38	36.75
	48 W 809	2 2	.167″ .184″	13/4	.03	3 36	11.76	23.52
8770*#					.04	3.38	15.44	30.87
8771*#	48 W 755 48 W 756	3	.236"	33/4	.06		23.16	46.31
	48 W 757	3	.200"	2	.035		14.70	29.40
	48 W 814	2	.225"	41/2	.06	1. 1. 29 . 1. 2	24.26	36.75 48.51
8780 † # §	48 W 815	2	.266"	\$.	.07		26.46	52.92
	48 W 865	. 2	.205"	3	.05		18.96	37.93
	48 W 803	2	.231"	4	.05	4.36	19.60	39.20
		3	.236"	43/4	.06	5.29	24.70	49.39
8799‡	48 W 885	2	.165"	3	.05		21.32	42.63

UNSHIELDED P.A. AND SOUND SYSTEM CABLE

High-quality cable for PA and intercom installations, speaker extensions, alarm systems, etc. High insulation resistance and precision cabling assure low-noise circuits free from cross-talk and interference. Have vinyl insulated, untinned conductors, except † and § which are tinned. All have outer jackets of chrome vinyl, except 8794 which has rose-gray vinyl jacket and 8481, 8482, 8460, 8470 and 8492 which are twisted pair types without jacket. 8483 and 8493 are cabled and without jacket. \$Solid copper conductors. †Stranded (7x26). ‡Stranded (10x30). \$Stranded (19x29). For price of continuous footage over 100′, use "PER FT." price—state desired footage.

Mfr's	Stock	Cond.	Wire	O. D.	Lbs.,	PER	STE	SPO	OLS
Туре	No.		Size	فينفط	100 ft.	FT.	100'	500'	1000'
8481*	48 W 758		22	.112"	1'	.015	1.25	4.56	8.82
8794*	47 W 010		22	.168"	11/2	.03		9.19	
8205‡	47 W,020		20	.190"	11/2	.04	2.45		18.77
	48 W 878		19	.115"	11/2	.02	1.57		11.03
8483*	48 W 879	3	19	.132"	13/4	.025	1.91		16.17
	48 W 805	2	19	.162"	2	.025			17.64
	48 W 806		19	.180"	21/2	.03			22.64
	47 W 011	2	19	.170"	11/2	.02	1.76		13.62
	47 W 012	2	19	.170"	11/2	.02	1.76		13.62
8493*	47 W 013	3		.170"	21/4	.03			20.58
8460†	48 W 816	2	18	.175"	1	.03	2.21		
8461†	48 W 817	2	18	.226"	3	.04		13.52	18.82
	48 W 818	2	16	.195"		.035	3.09		
84718	48 W 8 1 9	2		.256"		.05		11.76	
8473§	48 W 234			.332"		.065		16.76	
0	CONDUC	TOD	~	-				17.40	24.27

2-CONDUCTOR SHIELDED INTERCOM CABLE



All have vinyl plastic insulation, jackets except 8738 and 8758 which have copper braid jackets. Tinned conductors. *Tinned copper spiral-wrapped shield. Black/red (7x28); 8738, 8739 are No. 22 solid. For price of continuous footage over 100′, use "PER FT." price—state desired footage.

Mfr's	Stock	O. D.	Lbs.,	PER	STAN	DARDS	POOLS
Туре	No.	0.0,	100 ft.	FT.	100'	500'	1000'
8737* 8738 8758 8759* 8739*	48 W 877 48 W 882 48 W 801 48 W 802 48 W 883	.170" .130" .165" .195" .160"	21/4 2 21/2 23/4 21/4	.04 .03 .035 .05	3.33 2.50 2.94 3.68 2.89	13.23 10.29 13.62 16.91	26.46 20.58 27.20 33.81 22.05

SPECIAL INTERCOM AND SOUND CABLES



Type 8734. 3 vinyl insulated cond.; tinned copper shield on one, other 2 unshielded. Chrome vinyl jacket overall. Wt., 100 ft., 23/4 lbs.

Type 8763. 3 polyethylene insulated cond.; aluminum-"Mylar" shield over 2 cond.; 1 unshielded. No. 20 stranded ground wire. Chrome vinyl jacket overall. Shpg. wt., 100 ft., 31/4 lbs.

Type 8732. 4 polyethylene insulated cond.; 1 pair tinned copper shielded. 1 pair unshielded. Chrome vinyl plastic jacket. 100 ft., 3 lbs.

Type 8732. 3 conductors separately aluminum-"Mylar" shielded. Ground wire tinned cadmium-bronze, "Beldfoil Z" fold. 100 ft., 2½ lbs.

Type 8722. 4 vinyl ins. cond.; 2 shielded with aluminum-"Mylar" wrapping; 2 unshielded. Tinned ground; chrome vinyl jacket. 100 ft., 4½ lbs.

Type 8792. Telephone cable. 13 sets of vinyl insulated triplet conductors—each triplet color-coded. Chrome vinyl jacket. 100 ft., 17½ lbs.

Type 8793. As above, but 27 triplet sets. Wt., 100 ft., 36/2 lbs.

For price of continuous footage over 100', use "PER FT." price—state desired footage.

Mfr's	Stock	Cond	AWG	O. D.	PER	ST	D. SPO	OLS
Туре	No.	Cona.	AWG Stranding	O. D.	FT.	100'	500'	1000'
8763	48 W 875 49 W 840 48 W 897	3	22 (7x30) 20 (7x28) 22 (7x30)	.194	.045	4.36	17.64	35.28
8733	48 W 235	3	22 (7x30)	.225	.045		15.81	
8792	47 W 021 47 W 022 47 W 023	13 (3)	20 (7x28) Solid Solid	.540	.06 .30 .563	24.99	23.52 124.95	47.04 249.90

PAIRED VINYL UNSHIELDED CABLE

For intercom and telephone wiring. No. 22 solid tinned copper except *No. 22 stranded (7x30) color-coded vinyl plastic insulation. Conductors cabled in twisted pairs; chrome vinyl plastic overall. Provide a quiet circuit, free from crosstalk. Vinyl plastic insulation for high dielectric strength. For price of continuous footage over 100', use "PER FT." price state desired footage.

STANDARD SPOOLS PER FT. Lbs., 100 ft. Type 8442* 48 W 236 8740 48 W 890 8741 8742 88 W 891 8757 48 W 759 Cond. O.D. 500' .165" .150" .201" .240" .255" .02 .035 .05 8.09 6.47 11.76 16.17 20.22 16.17 12.50 22.79 31.61 31.61 40.43 305" 340" 354" 389" 27.20 36.75 37.88 52.92 51.45 .07 .10 .095 5.88 8.09 7.94 11.17 10.73 54.39 73.50 75.71 105.84 102.90 12 12 18 18 22 384 8754 8745 8755 8756 8746 49 W 845 48 W 895 49 W 846 49 W 847 48 W 896 26 30 38 46 54 .409" .420" .480" .510" .550" 11 10 15 171/4 58.07 66.15 90.41 105.84 | | 6.|3 |30.83 |80.8| .16 .23 .28 .243 8750* 47 W 036 8751 48 W 776 .595" .745" 20½ 33

SHIELDED SOUND SYSTEM CABLE



All have copper shielded, #18 stranded cond., cotton or paper wrapped, rubber insulation (except 8735, #22 stranded cond., plastic insulation). 8209 in weatherproof cotton jacket; 8208, 8735 plastic; 8206 is shielded hookup "PER FT" column State desired features footage over 100 ft., use

PI	LK FI. CC	lumn	ı. Sta	ate de	sired	foota	age.				
Mfr's	Stock	Cond	0 0	Lbs		S	TANDA	RD SPO	OOLS	1	PER
Туре	No.	Conu.	υ. υ.	Lbs., 100 ft.	15'	50'	100'	250'	500'	1000'	FT.
	47 W 833		.156"	21/2	.73	1.99	3.53	7.74			.06
8208	47 W 854 47 W 849	2	.270"	4	1.15	3.19	5.83			49.98	
	48 W 874		.258" .199"	4 2	05	2 25	1 21		24.99	49.98	.09

RG TRANSMISSION CABLE



Have low-loss, flexible polyethy-lene inner jackets covered with copper braid shield. All have silver-coated copper shield. *Solid copper; others are stranded. For state desired footage.

RG	Mfr's		Imp.	Mmf	0.D.	Lbs.	PER	STA	NDARD S	POOLS
No.	Type	No.	إفتننا	/ft.	0.0.	100 ft.	FT.	1004	500'	1000'
5A/U	8264	49 W 891	50	28.5	.328"	9.2	.30		120.54	241.08
8/U	8237	47 W 511	52	29.5	.405"	12	.145	12.15	56.60	113.19
213/U		49 W 892	50	28.5	.405"	113/4	.175		69.83	139.65
9/0		47 W 512	51	30.0	.420"	13¾	.35	29.40		288.12
11/U		47 W 513	75	20.5	.405"	11	.13	10.98	50.72	101.43
11A/U		49 W 893	75	20.5	.405"	10	.17	14.26	64.68	129.36
58/U 58A/U			53.5	28.5	.193"	31/2	.085	4.85	21.32	42.63
		47 W 517	50	28.5	.195"	31/2	.08	4.95	21.32	42.63
58C/U		49 W 895	50	28.5	.195"	3	.07		24.99	49.98
		47 W 552	73	21	.242"	41/2	.095	5.68		
59B /U		49 W 896	75	20.5	.242"	4	.08		26.46	52.92
02/0	0234	47 W 518	93	13.5	.242"	4	.075	6.03	24.50	49.00

Belden Wire and Cable

WIL-W-76A SRIR THERMOPLASTIC HOOK-UP WIRE

Heavy-duty, thermoplastic insulated hook-up wire. Rated 1000 v. rms. Meet MIL specs. Have tinned copper conductors, .017" thick insulation. Available in: black, brown, red, orange, yellow, green, blue, violet, gray, and white (except 8520 and 8527, not available in violet or gray). Specify choice. Av. shpg. wt., 25-ft. spool, 6 oz.; 100-ft. spool, 1 lb.; 1000-ft. spool, 5½ lbs.



25-FOOT SPOOLS—SPECIFY COLOR

Stock No.	Mfr's Type	Size	Strands	O. D.	NET EACH
47 TT 214	8530 8524	22 22	Solid 7x30	.059"	•35
47 TT 215 47 TT 216	8529	20	Solid	.066"	.43
47 TT 217	8523 8522	20 18	10x30 16x30	.070"	.47

100 AND 1000-FOOT SPOOLS-SPECIFY COLOR

Mfr's				100'	SPO	OL	1000' SP	OOL
Туре	Size	Strands	O. D.	No		EACH	No.	EACH
8525 8530 8524 8529	24 22 22 22 20	7x32 Solid 7x30 Solid	.058" .059" .064" .066"	47 TT 47 TT 47 TT 47 TT	244 218 219 220		47 TT 245 47 TT 222 47 TT 223 47 TT 224	5.14 4.41 5.73 5.29
8523 8522 8528 8531	18 18 16	10x30 16x30 Solid Solid	.070" .080" .074" .085"	47 TT 47 TT 47 TT	110	1.21	47 TT 225 47 TT 111 47 TT 113 47 TT 247	7.01 8.92 7.35 9.95
8521 8520 8527	16 14 12	26x30 41x30 65x30	.098" .111" .130"	47 TT 47 TT 47 TT	114	1.55	47 TT 115 47 TT 117 47 TT 119	11.61

POPULAR ANTENNA WIRE

High conductivity copper antenna wire. Ideal for all receiving and transmitting antenna requirements. Maximum tensile strength assures minimum stretch. *Formvar insulation protects wire from corrosion. Av. shpg. wt., per 100-ft. coil, 1 lb. Supplied only in the strength of the strength lengths shown below.



STRANDED BARE COPPER

Туре	8000—7×2	22	Type 8002—7x24					
Stock No. 47 T 680 47 T 681	50 ft. 75 ft.	NET .81	Stock No. 47 T 654 47 T 655	50 ft. 75 ft.	.59 .73			
47 T 682 47 T 683	100 ft. 1,000 ft.	13.23	47 T 656 47 T 657	100 ft. 1,000 ft.	.96 8.82			

SOLID *FORMVAR-INSULATED COPPER

Type 8008 No. 12	Type 8009 No. 14
47 T 670 100 ft. 2.50	47 T 740 100 ft. 1.70
47 T 735 200 ft. 4.56	47 T 742 200 ft. 3.23
47 T 736 500 ft. 10.68	47 T 741 500 ft. 7.20

INDOOR AERIAL WIRE

Type 8014. Extra flexible. No. 25 stranded (13x36), tinned copper conductor, with chrome vinyl plastic insulation. O.D., .044°. Shpg. wts.: 25-ft. spool, 2 oz.; 500-ft. spool, 2 lbs.

47 T 930, 25-ft. spool. NET .37 47 T 933, 500-ft. spool. NET 2.65

NYLCLAD HEAVY MAGNET WIRE

Type HNC. This heavy-duty Nylclad copper magnet wire combines the most desirable features of Formvar wire with the toughness and solvent resistance of nylon enamel. Unexcelled for difficult and exacting windings of any type. Outstanding features: withstands winding abuse and forming operations; resists solvent action of all types of thinners; resists softening and brittleness at extreme temperatures; infinite moisture resistance.



-	1/2 lb.	Spool		1 lb, Spool						
Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET			
48 T 036 48 T 037 48 T 038 48 T 039 48 T 040	14 16 18 20 22	40 63 100 157 250	.67 .67 .67	48 T 086 48 T 087 48 T 088 48 T 089 48 T 090	14 16 18 20 22	80 126 199 315 501	1.15 1.15 1.18 1.22 1.28			
48 T 041 48 T 042 48 T 043 48 T 044 48 T 045	24 26 28 30 32	396 630 995 1570 2440	.75 .81 .88 1.02 1.09	48 T 091 48 T 092 48 T 093 48 T 094 48 T 095	24 26 28 30 32	793 1260 1990 3140 4880	1.35 1.49 1.62 1.84 2.02			
48 T 046 48 T 047 48 T 048 48 T 049	34 36 38 40	3930 6200 9700 16050	1.25 1.55 1.91 2.75	48 T 096 48 T 097 48 T 098 48 T 099	34 36 38 40	7860 12400 19400 32100	2.35 2.94 3.75 5.52			

DUPLEX LIGHTING CABLE

Weatherproof 2-conductor stranded lighting cables

Weatherproof 2-conductor stranded lighting cables for outdoor use only. Ideal for extending power lines to yard, garden, garage, barn, etc. Consist of two stranded, tinned copper, vinyl insulated conductors: one conductor brown vinyl, the other, red vinyl, running parallel through an oval-shaped, chrome vinyl outer jacket of .022" thickness. 8677 is No. 16 AWG (19x29); O.D., .164x.276". 8675 is No. 12 AWG (19x27); O.D., .189x.326". 8673 is No. 12 AWG (19x25); O.D., .213x.384". Av. shpg. wt., per 100 ft., 5 lbs.

Stock No.	Туре	Per ft.	100	ft. Spool	500 ft. Spool
47 W 405 47 W 415 47 W 425	8677 8675 8673	.07		5.59 7.30 9.11	26.46 33.81 44.10

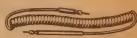
TEST PROD WIRE



Rubber-covered lead designed for use with test equipment. Made to withstand extremely high voltages. No. 18 conductor is 65x30 stranded tinned copper with cotton wrapping. Type 8898 has .230" O.D. and .088" rubber insulation. 10,000 v. working voltage. 29,000 v. puncture voltage. Type 8899 has .144" O.D. and .045" rubber insulation. 5000 v. working voltage, 20,000 v. puncture voltage. Shpg. wt. per 100 ft.: 8898, 4 lbs.; 8899, 2 lbs. Lengths under 100 ft. are available only in 10 and 25-ft. spool sizes.

	TYPE	8898		TYPE 8899					
Stock No.	Color	Length	EA.	Stock No.	Color	Length	EA.		
47 T 811 47 T 801 47 T 812	Black	10 ft.spool 10 ft.spool 25 ft.spool	.71	48 T 911 48 T 901 48 T 912		25 ft.spool	.47		
47 T 802 47 T 810 47 T 800	Red	25 ft.spool 100 ft.spool 100 ft.spool	3.53	48 T 902 48 T 910 48 T 900	Red	25 ft.spool 100 ft. spool 100 ft. spool	2.35		
47 W 813 47 W 803		{ 500-ft. Spool	16.02	48 W 913 48 W 903	Red Black	{ 500-ft. Spool	9.95		

NEW COILED TEST PROD CABLE



COPPER BRAID SHIELDING AND BONDING CABLE

Type	I.D.	Stranding
8660	1/8"	96x34
8668	11/64"	120x34
8663	1/4"	160x34
8661	3/8"	192x34
8669	1/2"	336x34
8662	25/32"	576x34

Flexible, braided and tinned copper for shielding conductors and cables. Useful for forming TVI-proof, metal-to-metal bonding. Braided in tubular form for easy slip-on installation over wiring. Av. shpg. wt., per 50 ft., 1½ lbs.

Mfr's	1 10 ft. Sr	1 50 ft. Sp	ool	250 ft. Spool		
Type	Stock No.	NET	Stock No.	NET	Stock No.	NET
8660 8668 8661 8669 8662 8663	49 T 351 49 T 356 49 T 361 49 T 366 49 T 381 49 T 842	.50 .68 .67 1.18 1.55	49 T 350 49 T 355 49 T 360 49 T 365 49 T 380 49 T 843	1.47 2.02 2.30 5.39 6.91 1.86	47 T 060 47 T 061 47 T 062 47 T 063 47 T 064 47 T 065	6.61 8.82 10.29 24.40 33.81 8.08

JUKE BOX CABLE



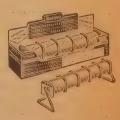
All have vinyl inner insulation, vinyl outer jacket and stranded, color-coded tinned copper conductors. 8783 has 3 conductors: 1—#20, 2—#16. 8785 oval has 5—#22 conductors; 3 twisted under a shield, 2 twisted unshielded. 8786 oval has 6 condctors: 4—#24 twisted under a shield, 2—#22 twisted, unshielded. 8787 has 10 conductors: 2 groups of 4—#24 gauge, each group twisted under a separate shield, and 2 conductors #22 unshielded. (All shields are tinned copper braids.)

Mfr's	Stock	O. D.	Wt.,	NET	100 ft.	500 ft.
Type	No.		100 ft.	Per ft.	Spool	Spool
8783	48 W 867	.250"	4 lbs.	.055	5.64	20.58
8785	48 W 869	.211x.316"	4 lbs.	.06		24.26
8786	48 W 864	.211x.316"	4 lbs.	.07		27.20
8787	48 W 827	.330"	7 lbs.	.23		91.88

TYPE 8782 JUKE BOX SPEAKER CABLE

TYPE 8885 SHIELDED GRID WIRE

ASSORTED WIRE KITS



Type 8824. Contains eight 25-ft. spools of Type 8523 hook-up wire and a dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown. Shpg. wt., 21/4 lbs. 3.76

228.

Type 8820. Contains 8—25-ft. spools of 8943 No. 20 stranded $(10x^30)$, cellulose acetate hook-up wire and dispenser in same colors as above. 2 lbs. 47 T 229. NET......4.94

Coaxial Cable, Lacing Cords, Insulation Tubing

AMPHENOL RG COAXIAL CABLE



Low-loss coaxial cable for RF applications. All meet rigid military and commercial specs. Have vinyl jacket and polyperature ranges from -74 to +200° C., making them ideal for aircraft and guided missile applications. All are highly resistant to weather, acids, alkalis, and gasoline. Have low moisture absorption qualities.

Stock No.	RG No.	Imp., Ohms	Mmf Per Ft.	0.D.	Lbs, 100	1-99 Ft. PER FT.		.,500-999 Ft., PER FT.
49 W 460 49 W 315 49 W 470 49 W 306 49 W 485 49 W 487	8/U 8A/U 11/U 17/U 58/U 58A/U	52 52 75 52 52 53.5 50	29.5 29.5 20.5 29.5 28.5 28.5	.405" .405" .870" .195" .195"	12 12 12 12 47 3	.128 .142 .119 .637 .053	.119 .132 .110 .583 .049	.119 .132 .110 .525 .049
49 W 319 49 W 490 49 W 638 49 W 488 49 W 312 49 W 473	58C /U 59 /U 59B /U 62 /U 63 /U 174 /U	50 73 75 93 125 50	28.5 21 21 13.5 10 30	.195" .242" .242" .242" .405" .100"	3 4½ 4 4½ 12 12 2	.058 .055 .063 .058 .142 .052	.054 .051 .059 .054 .130 .048	.054 .051 .059 .054 .130
Stock No.	RG No.	Im Oh		/lmf er Ft.	0.D.	Lbs., 100'	1-99 Ft., PER FT.	100-249 Ft., PER FT.
49 W 636 49 W 193 49 W 194 49 W 195 49 W 643	115A /U† 178A /U† 179A /U 180 /U† 210 /U†		0 2 1 1 3 1	9.5 9.5 5.5 3.5	.415" .075" .105" .141" .242"	18 1 1 1½ 4	2.080 .240 .275 .430	1.870 .220 .247 .390 1.050

"SUB-MINAX" MINIATURIZED COAXIAL CABLE

Type 21-597. Identical to full-size coaxial cable. Has polyethylene dielectric vinyl jacket, braided copper shield, and stranded copperweld inner conductor. 7x.0056° construction. Imp., 75 ohms; capacitance, 20 mmf per ft. 150° O.D. Shog. wt., 100°, 1½ lbs.
49 W 472. 100-499 Ft., PER FT. .053 1-99 Ft., PER FT....058

POLYFOAM COAX AND MICROPHONE CABLE

Type 21-146 is microphone cable with polyethylene dielectric. Types 621-100, 621-111 and 621-715 are similar to types RF11/U, RG8/U and RG59/U respectively, but have polyfoam dielectric.

Stock	Mfr's	Imp.,	Mmf	0.D.	Lbs.,	1-99 Ft.,	100-499 Ft.
No.	Type	Ohms	Per Ft.		100'	PER FT.	PER FT.
49 W 313 49 W 337 49 W 339 49 W 644	21-146 621-100 621-715 621-111	45 75 73 50	35 16.5 17 26.5	.155" .405" .195" .405"	2 8 2 10.4	.049 .144 .050	.045 .132 .045

Specifically made for rewinding antenna primaries, hand-winding RF coils, IF coils, and similar radio frequency applications. Outside diameter: 48 T 981. NET

VARNISHED SPAGHETTI TUBING



ASSORTED 8" LENGTHS

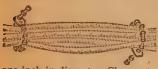
Highly popular with servicemen, experimenters and builders. An assortment of 26 pieces of vinyl and cambric spaghetti tubing in various colors and diameters. Shpg. wt., 3 oz.

49 T 220, 26-Piece Assortment.

SELECTION OF 36" LENGTHS

5 lengths to a package. 4,000 v. dielectric. Av. shpg. wt., 2 oz.

For Wire	4 7 2	k No.		Per	5 or More Pkgs.,	
Size	Black	Yellow	Red	Green	Pkg.	Per Pkg.
20 18 16 14 12 10	49 T 164 49 T 169 49 T 174 49 T 179 49 T 184 49 T 189	49 T 165 49 T 170 49 T 175 49 T 180 49 T 185 49 T 190	49 T 66 49 T 71 49 T 76 49 T 81 49 T 86 49 T 91	49 T 167 49 T 172 49 T 177 49 T 182 49 T 187 49 T 192	.53 .57 .58 .64 .68	.48 .52 .53 .58 .62 .68



GENERAL-CEMENT CABLE TIES

Made of high dielectric polyethylene with 45 lb. breaking point. Designed to withstand temperatures of up to +120° F. Each is 4¼" long. Will make neat, compact harnesses as large as

one inch in diameter. Shpg. wt., 2 oz. 50 per pkg.

Stock No.	Type	Color	PER PKG.	Stock No.	Type	Color	PER PKG
49T 42 49T 43	34-432	Red	.61	49 T 144	34-436	Yellow	.61

STRANCO WIRE MARKERS



CABLE LACING CORD

Waxed linen twine. Hard-twist gray 8-cord; 50 lb. test. 1-lb. spool, 450 yds.; ½-lb. spool, 225 yds. Shpg. wts.: 1-lb. spool, 1¼ lbs.; ½-lb. spool, ¾ lb. 49 T 245, 1-lb. Spool. NET. 3.18 49 T 246. ½-lb. Spool. NET. 1.68

ALPHLEX FIT-275 SHRINKABLE TUBING (Specify Color)



at "Min. I.D." size. Shrinks to *recovered inside diameter within 8 seconds, when heated, to form permanent, tighting bond. Use soldering iron, match or heat-gun below to heat. For jacketing, color-coding, etc. Self-extinguishing; resists fungus, acids, alkalis, oils. In choice of 2 sizes; 6" and 4-ft. lengths. Packed one size and one color to a box. Available in black, red, white and yellow—specify color. Av. wt. per 100 ft., 1 lb.

24 .050' .027' .012' 48 TT 000 40 48 TT 117 48 TT 001 36 48 TT 118 3.75 48 TT 103 36 3.75 48 TT 118 3.75 48 TT 103 32 48 TT 103 32 48 TT 120 34 3.75 48 TT 120 32 32 32 33 33 33 33	Size	Min. Recov. Nom. W I.D. I.D.* Thickne			Stock No.	4' Lgths. per Box	PER BOX
14 .120' .072' .016' 48 TT 005 28 48 TT 122 12 .153' .089' .016' 48 TT 006 24 48 TT 123	22 20 18	.055" .032" .012" .060" .039" .016" .076" .049" .016"	48 TT 001 36 48 TT 002 34 48 TT 003 32	3.75	48 TT 18 48 TT 19 48 TT 20	25 25 25 25 25 25 25	16.00 16.70 17.50 19.15 20.75
8 240" 141" 020" 48 TT 008 18 3.75 48 TT 25 6 302" 178" 020" 48 TT 009 18 48 TT 126 48 TT 127 128	14 12 10 8	.120" .072" .016" .153" .089" .016" .191" .112" .016" .240" .141" .020" .302" .178" .020"	48 TT 005 28 48 TT 006 24 48 TT 007 20 48 TT 008 18 48 TT 009 18		48 TT 22 48 TT 23 48 TT 24 48 TT 25 48 TT 26	25 25 25 25 25 25 25 25	22.70 24.90 27.25 31.80 34.30 37.30

BLACK ONLY 3.75 48 TT 48 TT 48 TT 48 TT 48 TT 48 TT 016 48 TT 017 48 TT 018 48 TT 019 3.75 48 TT 48 TT 48 TT 48 TT



Model HG-1 Heat Gun. Powerful centrifugal-type blower with heating element provides heat for easily and quickly shrinking above Alphlex tubing. Has triangular base for bench use or may be hand held. Has on-off switch on handle. For 110-120 v., 60 cycle AC.

ALPHLEX PVC-105 PLASTIC TUBING (Specify Color)



Extruded plastic tubing for protection of wire and cable from effects of heat, oil, corrosion, fungi, etc. Resists temperatures from -30° C to 105° C. Conforms to military specifications MIL-1-631C, ASTM-D876, and ASTM-D922. Rated at 800 volts; resistance, over 1 million megs. Tensile strength, 2500 PSI. Sizes 24 and 22, .012" wall thickness; others, .016". In clear, black, red, yellow, green, blue, brown, white, and orange—specify color. Av. shpg. wt., 100 ft., 5 oz.

		25-Ft. Coil		100-Ft. Coil				
Size	Nom.	Stock	NET	Stock	1-9,	10-49,	50-Up,	
		No.	EACH	No.	EACH	EACH	EACH	
24 22 20 18	.022" .027" .034" .042"	71 TT 300 71 TT 301 71 TT 302 71 TT 303	°65 .66 .67	71 TT 307 71 TT 308 71 TT 309 71 TT 310	1.61 1.62 1.66 1.73	1.30 1.31 1.35 1.38	1.08	
16 14 12	.053" .066" .085"	7 TT 304 7 TT 305 7 TT 306	.71 .75 .79	71 TT 311 71 TT 312 71 TT 313	1.85	1.46	1.21	

Tubing as above. Size 10, .016" wall thickness; all other sizes, .020" Available in choice of six popular colors: clear, black, red, yellow, green, and white—specify color. Av. shpg. wt., 100 ft., 10 oz.

10	.106"	71 TT 3141	.83	71TT 319	2.31	1.85	1.55
- 8	.133"	71 TT 315	1.10		3.39	2.66	2.23
6				71 TT 321		3.02	2.51
4				71 TT 322		3.47	2.84
2	.263"	71 17 3 8	1.59	71 TT 323	5.34	4.00	3.32

Wall thicknesses, size 0, .020"; *.025"; †.030"; §.035". Choice of clear of black—specify. Av. wt., 100', 5 lbs.

0 .	.330"	71 TT 324	1.8117	TT 3	335 6	.23	4.64	3.89
5/16"* 3/8"*	.312"	71 TT 325	2.11 7	7 I TT 3	336 7		5.54	4.64
		71 TT 326					6.41	5.49
1/2"*		71 TT 327					8.07	6.87
5/8"†	.625"	71 TT 328	4.08 7	TITE:	339 15	.30	1.73	9.83
3/4 " 8	.750"	71 TT 329	5.53 1.					

ALPHLEX ELECTRONIC LACING TAPES



High-quality flat lacing tapes in assorted colors. Designed to meet the most stringent military requirements. 0.14" thick, except LC-134, 0.10", *MIL T713A, Type P, Class II. Shpg. wts.: 200-yd, spool, 8 oz.; 500-yd., 1 lb.

BRAIDED NYLON-200-YARD SPOOLS

No.	Туре	Color	Width	Strength	EACH				
49 T 978 49 T 979	LC137 LC137	White Black	1/4"	145 lbs. 145 lbs.	5.84 6.08				
	BRAIDED I	NYLON-50			J. 1. 1.				
49 T 980 49 T 981 49 T 982 49 T 983	LC136* LC136* LC134 LC134	White Black White Black	3/32" 3/32" 1/16" 1/16"	52 lbs. 52 lbs. 52 lbs. 52 lbs. 52 lbs.	7.89 8.51 5.06 5.67				
BRAIDED DACRON-500-YARD SPOOLS									
49 T 984	LC162	White	3/32"	50 lbs.	7.89				

.TV Tube, Telephone, Pickup Arm, Hook-Up Wire and Cable

BELDEN CATHODE-RAY TUBE CABLE 1.3

High dielectric, corona resistant, minimum surface leakage CRT cables. No. 22 (7x30) tinned copper, polyethylene insulated. 8868 has red vinyl jacket; rated 25,000 v. working; 50,000 v. breakdown. 8869 has black vinyl jacket; rated 17,000 v. working; 35,000 v. breakdown.

			25-ft. Spool				100-ft. Spool			
Type	Insulation	O. D.	Stock	No.	Wt. Lbs.	NET	Stock	No.	Wt. Lbs.	NET
8868 8869	.065"	.150" .120"	47 T 48 T	897 238	1/4	.73	47 T 48 T	896 239	13/4	1.86

BELDEN RUBBER-COVERED LEAD-IN

Type 8200. Flexible No. 18 tinned copper wire, stranded (7x27), with .040" live rubber insulation. Overall diameter, .126". Av. shpg. wt., 100-ft. spool, 1½ lbs.
47T746.500-ft. Spool NET 6.32. 47 T 745.100-ft. Spool. NET 1.62

TELEPHONE WIRE

2-Conductor Interior. For interior use with telephones, intercoms, etc.
No. 22 solid, tinned copper wire. \(\frac{1}{2}\)'z insulation and glazed cotton braid. Wt., 100 ft., 2\)'z lbs.
48 W 810. PER FOOT...04 100 ft. or More, PER 100 FT. 3.73
2-Conductor Exterior. No. 22 solid tinned copper wire. Each conductor has rubber insulation; overall black, weatherproof braid. Shpg. wt., 100 ft., 3 lbs.

48 W 826. PER FOOT...04 100 ft. or More, PER 100 FT..3.38

-Conductor Exterior. As above, but 3-cond. Wt., 100', 4 lbs. 8 W 825. PER FOOT..055 100 ft. or More, PER 100 FT..5.08

TWISTED-PAIR ANTENNA LEAD-IN

High-quality, twisted-pair antenna lead-in wire.

Designed especially for use with noise-reducing, doublet-type receiving antennas. Close impedance match assures efficient signal transfer. Consists of two flexible No. 18, stranded-wire conductors with tough, long-life rubber insulation. 1/2" thick. Weather-proof; does not crumble or dry out during prolonged usage. Shpg. wt., 100 ft., 3 lbs.

48 W 850. PER FT. .03 100 ft. or More, PER 100 FT...... 2.56

ROME FLEXALL CABLE

A non-metallic sheathed waterproof and rot resistant cable—designed specifically for burial in the earth. Has 2 No. 14 solid wire conductors insulated with Type TW thermoplastic. An all-glass yarn wrap covers both conductors and a synthenol plastic sheath covers the entire cable. Ideal for outside lighting and speaker systems. Eliminates overhead wiring. Capacity 15 amps. Rated at 600 volts. U.L. Approved. Size, .200x.350°. Shpg. wt., 100 ft., 7½ lbs.

47 W 594. PER FOOT...09 100 ft. or More, PER 100 FT..8.52

ROME ROFLEX CABLE

Two-conductor cable for indoor or outdoor use. Ideal for long speaker lines and electrical feeders or branch circuits or line installations for motors, power tools, etc. Color-coded No. 14 solid wire conductors have durable, heat resistant, thermoplastic insulation with plastic sheath covering entire cable. Current capacity is 15 amps. Rated at 600 volts. U.L. Approved. Sizes, .230x.410". Shpg. wt., 100 ft., 7 lbs. 47 W 549. PER FOOT...07 100 ft. or More, PER 100 FT..6.23

STEREO PICKUP ARM CABLES

High-quality phono pickup arm cables of exceptional flexibility. For record changers and turntables. No. 32 stranded (7x40) copper conductor with .009" vinyl plastic insulation. O.D., .055". Extremely light in weight, cables have minimum effect on stylus tracking force and lateral arm movement. Types 1479, 1406, 1407, and 1410 have braided tinned copper shield for minimizing the possibility of hum pickup. Av. shpg. wt.: 10 ft., 4 oz.; 25 ft., 6 oz.; 250 ft., 1 lb.

LINSHIELDED WIRE

	250-Ft.		25-Ft. C	10-Ft. Coil		N/(fm²a	
NET	Stock No.	NET	Stock No.	NET	Stock No.	Cond.	Туре
3.00	48 T 525			.32		2	1478
8.25				.38	48 T 526	3	1401
3	48 T 525 48 T 528	.44	48 T 524 48 T 527			2 3	1478

SHIELDED WIRE

*Indivi	dually	shielded con	ductor	'S	100		
1479	2	1 48 T 535	.45	48 T 536	.83	48 T 537 I	6.00
1406	3	48 T 538				48 T 543	
1407	4	48 T 544				48 T 546	
1410	2*	48 T 547	-60	48 T 548	11.35	48 T 549	12.75

HOOK-UP WIRE ASSORTMENTS

Six 25-ft, Coils. High efficiency, stranded copper wire—some tinned, some untinned. Ideal for use where high conductivity with negligible loss is essential. Unusually flexible and durable. In assorted gauges, colors and insulation. Designed for the chassis and sub-chassis wiring of radio and television receivers and transmitters, etc.Resists moisture and heat. Shpg. wt., 1 lb. ——79



colors. Stranded copper—tinned and untinned. Shpg. wt., 2949 T 345. NET PER PKG......

THERMOPLASTIC HOOK-UP WIRE

U.L. Approved. Voltage breakdown test, 10,000 volts. Oil and acid resistant. Withstands temperatures up to 80° C. Suitable for high-voltage circuits where low loss and proper insulation is essential. Shpg. wt., per 25 ft. spool, 4 oz.



20 SOLID	100	20 STRANDE	D
48 T 455. Black. 48 T 456. Red. 48 T 457. Blue. 48 T 458. Green. 48 T 459. Yellow.	25 FOOT SPOOL .29 EACH	48 T 460. Black. 48 T 461. Red. 48 T 462. Blue. 48 T 463. Green. 48 T 464. Vellow.	25 FOOT SPOOL

STRANDED HOOK-UP WIRE

No. 18 tinned soft-drawn copper wire. Cotton wrap and colored rubber insulation overall. Excellent for general wiring in radio-TV chassis, switchboards, etc. Shpg. wt., 25 ft., 5 oz.

Spool	Black	Red	Blue	Green	White E	ACH
25 ft.	48 T 200	48 T 201	48 T 202	48 T 203	48 T 205	.48

PUSH-BACK HOOK-UP WIRE

Highest quality tinned push-back hook-up wire, No. 20. Only evenly-drawn pure copper wire is used. Insulation easily pushed back for convenient wiring. Available in both solid and stranded type. Unusually flexible and durable. Double-cotton covered with paraffin-treated damp-proof braid. 5 different colors. Shpg. wts.: 25 ft., 4 oz.; 100 ft., 1 lb.



STRANDED TYPE, 10x30

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft.	48 T 442	48 T 440	48 T 444	48 T 441 48 T 446	48 T 443	.36
100 1t.	48 447	46 1 445	40 447	40 1 440	40 1 440	1.47

SOLID TYPE

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft. 48	T 472 4	8 T 470	48 T 474	48 T 471	48 T 473	1.26
100 ft. 48	T 477 4	8 T 475	48 T 479	48 T 476	48 T 478	

HIGH-GRADE MAGNET WIRE ON SPOOLS

Insulated, soft-drawn copper wire of highest quality. Specially manufactured for all types of coil winding applications—transformers, RF coils, chokes, etc. All sizes indicated below are standard B&S gauge. Shpg. wts.: ½-lb. spool, 14 oz.; 1-lb. spool, 1½ lbs.



PLAIN ENAMELED 1/2 LB. SPOOLS

Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET
48 T 100 48 T 102 48 T 104 48 T 106 48 T 108 48 T 109	14 16 18 20 22 24	38 63 101 159 253 402	.60 .60 .62 .65	48 T 115	26 28 30 32 34 36	640 1013 1602 2543 4042 6410	.71 .75 .83 .84 .92

SINGLE COTTON ENAMELED 1 LB. SPOOLS

	SHILL		O14 m142				
48 T 020 48 T 022 48 T 023 48 T 024 48 T 025	14 16 17 18 19	78 124 156 198 248	1.44 1.50 1.56 1.62 1.70	48 T 028 48 T 029 48 T 030 48 T 031 48 T 032	22 24 25 26 28	490 772 936 1209 1876	1.91 1.95 2.07 2.19 2.63
48 T 026	20	312	1.79	48 T 033	30	2780	3.08

HEAVY FORMVAR MAGNET WIRE IN 1-LB. SPOOLS

Copper magnet wire covered with Formvar; tough, abrasion-resisting film. Stable dielectric under drying and aging effects of heat; does not fail after two hours at 105° C. Impervious to moisture and petroleum solvents; resists acid and alkali. Takes up less winding space. Replaces enamel, paper, cotton, silk, and double cotton and double silk wire. Wt., per spool, 1½ lbs.

Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET
48 T 180	14	78	1.13	48 T 187	28	1999	1.59
48 T 137	15	99	1.13	48 T 144	29	2780	1.77
48 T 181	16	124	1.13	48 T 188	30	3200	1.79
48 T 138	17	156	1.14	48 T 145	31	4410	2.03
48 T 182	18	198	1.14	48 T 189	32	4900	2.04
48 T 139	19	246	1.19	48 T 146	33	6441	2.16
48 T 183	20	313	1.20	48 T 190	34	7950	2.19
48 T 140	21	397	1.26	48 T 147	35	9002	2.51
48 T 184	22	501	1.26	48 T. 191	36	12,800	2.54
48 T 141	23	628	1.34	48 T 148	37	15,898	3.45
48 T 185	24	798	1.34	48 T 192	38	20,000	3.51
48 T 142	25	941	1.43	48 T 149	39	25,188	5.37
48 T 186	26	1200	1.46	48 T 193	40	31,700	5.45
48 T 143	27	1583	1.56	1			

TINNED SOLID COPPER WIRE

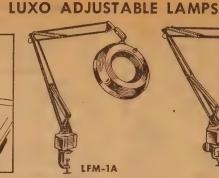
Fine quality, soft-drawn copper wire, tinned for easy soldering. Excellent for circuit wiring. Av. shpg. wt.: *2 lbs., †5 lbs.

*100-FT. COILS

Stock No.	Gauge	NET	Stock No.	Gauge	NET
47 T 128 47 T 127 47 T 126 47 T 125	24 22 20 18	.38 .48 .54	47 T 523 47 T 520 47 T 530 47 T 540	16 14 12 10	1.05 1.43 1.98 4.28
		†1000-F1	. SPOOLS		N85012 >

Adjustable Lamps and Accessories







11.04

Model LFM-1A Lamp With Magnifier. Combines large magnification, cool fluorescent light, and maneuverability into one versatile unit. Large, 5" lens gives excellent distortion-free view. Spring-balanced action for easy positioning. Two extension arms; 360° sweep; 45" reach. With mtg. clamp. Gray finish. For 110-120 v., 60 cycle AC. U.L. Approved. Requires Circline T9 lamp (below). Less lamp. 8 lbs. 91 NX 201. List, \$44.50. EACH. 30.28

Model FL-1A All-Angle Fluorescent Lamp. An all-purpose fluorescent lamp featuring "feather-touch" positioning—may be raised, lowered or turned with finger tip. Unique, spring-loaded extension arms always stay in position. Lamp housing is also adjustable. Shade 19x4½". Push-button starter. Has clamp for desk, bench, or table mounting. Two arms extend to 45". Gray finish. U.L. Approved. For 110-120 v., 60 cycle AC. Less lamps (requires 2 T8 lamps below). Wt. 9 lbs. 22.12 3 or More, EACH. 20.01

Model FL-9A. (Not illus.) Same as above, but only one extension arm with 25" reach. Shpg. wt., 8 lbs. 50 NX 769. List, \$21.50. EACH. | 6.12 or More, EACH. | 15.32

Model LC-1A Combination Lamp. Ideal for people working with color, this 3-way lamp combines incandescent and fluorescent light in one fixture. Either lamp can be used individually or in combination. Two extension arms reach 45%, sweep 360°. Clamp for table, desk, etc. Gray finish. U.L. Approved. For 110-120 v., 60 cycle AC. Uses 60-watt bulb and Circline T9 fluorescent tube (less bulb and tube). 9 lbs. 91 NU 229. List, \$29.50. EACH. 22.12

FLEXO ADJUSTABLE LAMPS



Model 5600 "Cool-Shade" Lamp. Low-cost bench or desk lamp lets you direct light where you need it. Adjusts to any position or angle. Shade vented for cool handling. Swivels at base, shade and each joint. Entirely spring-controlled in base, middle joint and shade. Maximum extension 42". Off-on switch on shade. Shade dia., 5½"; 7" deep. Universal base for clamping or screw mounting—either vertical or horizontal. Less standard bulb. Gray finish. U.L. Approved. Shpg. wt., 3½ lbs. 8.77 3 or More, EACH. 8.20

Model 4324 Portable Desk Lamp. Saves trouble of clamp or screw mounting. Similar to Model 4303 (left, above) but with weighted base. Especially useful for desks where screw clamp cannot be used. Raises and lowers, extends and tilts in any direction. Fingertip controlstays in position. Double arm extends 32". Pen and pencil grooves in base. Bronze finish. U.L. Approved. For 105-125 v., 60 cycle AC. Requires two T8, 15-watt lamps (below). Less lamps. Wt., 23 lbs. 91 NU 226. List \$28.95. EACH. 21.28 3 or More, EACH. 19.86

STANDARD AND CIRCLINE FLUORESCENT LAMPS

Most frequently used fluorescent lamps. *Circline lamps; size shown in table is the diameter of the lamp circle. All lamps below have mediumsize bi-pin bases except Type T5 (miniature bi-pin) and Circline lamps which have 4 pin bases. \$Rapid-start lamps. Types T12 (40 W.) below are dual purpose—for regular or rapid-start use.

Stock No. Type | Watts | Size | Tube | Dia. Color NET EACH Lbs. 6" 9" 15" 18" Cool-white White Cool-white 14 15 .88 18" 24" 8½" 12" 1.10 1.15 3.60 3.50 .88 Daylight Cool-white Cool-white 2.85 T128 T128 48" 48" Cool-white

ADVANCE FLUORESCENT BALLASTS

Wide selection of high-quality ballasts for all popular fixtures. \$\frac{15-65}{60}\$ corrected. **90-100% corrected. U.L. Approved. For 105-125 volts, 60 cycle AC. *Lamp watts. †For use with rapid start lamps.

‡1-LAMP BALLAST-NORMAL POWER FACTOR

Stock No.	Type	Watts*	Size	Ctrs.	Lbs.	NET
49 N 400 49 N 401 49 N 402 49 N 408	L-120F L-140 LO-14-20-C RLC-140	15/20 40 14,15,20 32,40	4¼ x2x1 ⁷ / ₁₆ " 6½ x1 ¹⁵ / ₁₆ x1 ³ / ₈ " 3½ x1 ²⁵ / ₃₂ x1¼" 6½ x2 ⁵ / ₁₆ x1 ¹¹ / ₁₆ "	35/8" 6" 23/4"	3 3/4 3	1.15 1.80 .83 2.65

12-LAMP BALLAST-NORMAL POWER FACTOR

49 N 403 49 N 404	20/20 22/32	6½ x2x1½6" 6½ x25/16x11½6"	5½" 6"	2.05
		A S A S A S A S A S A S A S A S A S A S		

*2-LAMP BALLAST-HIGH POWER FACTOR

.26	49 N 406 49 N 407	40 /40 40 40 40	9½ x2% x11½6° 9½ x2% x11½6°	815/16" 41/4 6.00 829/32" 4 5.08	
					-

Lamps, Fluorescent Fixtures, Lanterns and Flashlights

MITCHELL FLUORESCENT FIXTURES



SWING-O-LITE CLAMP LAMP

- Directs Light Where You Want It
- Ideal For Service or Work Bench

Durable gooseneck lamp allows you to bring light where it does the most good. At this low price, no service bench, work bench, or desk should be without one. Lamp shade rotates on joint to direct light—gooseneck extends over 30" circle. Utilizes 60 to 100 watt bulb. Switch is in top of vented shade. In durable Dove Gray baked enamel. "C" clamp mtg. bracket. All electrical parts U.L. Approved. Less bulb. Wt. 5 lbs. List, \$9.25

SWING-O-LITE LAMP WITH MAGNIFIER



52 E 650. Extra Bulb for Above. 5 oz....40

STARTERS AND SOCKETS







High-quality starters and sockets for all types of fixtures. *Circline. †Circlarc. Av. wt., 3 oz.

A STARTERS

Ş	tock No.	Mfr's Type	Watts	1-9, EACH	10-Up, EACH
78 78	N 850 N 851 N 854	FS4 FS12	14,15,20 30 or 40 32*	.20 .20 .28	.18
78	N 855	FS22	14,15,18* 20-22†	.28	.25

B LAMPHOLDER SOCKETS

Stock No.	Watts	Color	1-9, EACH	10-Up, EACH
78 N 860 78 N 861	{14,15,20 {30 or 40	Black White	•38 •40	.34

C STARTER SOCKET

Standard D	ual-Loc rer	note starter	socket.
78 N 858.	1 to 9, NE	T EACH	

D STARTER SOCKETS AND LAMPHOLDERS Combination Flex-Loc lampholder and Dual-

78 N 865 | {14,15,20 | Black 78 N 866 | 30 or 40 | White



E RAPID-START INDUSTRIAL FIXTURE

Model 2098 RS. All-purpose high-intensity lighting. Excellent for a wide variety of industrial applications. Uses two 48" Type T-12, 40-watt fluorescent lamps. High-gloss white enamel for maximum light reflection. Power factor corrected to reduce inductive effects.

E STANDARD INDUSTRIAL FIXTURE

1-1	
Model 2098. As above, but standard star	
type. With starters. Less lamps, chains. 9.1 NU 260. EACH	12
91 NU 260. EACH	+0
3 or More, EACH	.70
Model 949. Same as Model 2098, but uses t	wc
75-w. 96" fluorescent lamps. Wt., 35 lbs. 91 NU 187, EACH	10
2 N/0 FACH 17	15

G CIRCLINE FLUORESCENT FIXTURES

Model 665C. Low-cost, single-lamp, chrome-plated fixture with "instant-start" feature. Provides clear, glareless illumination—equivalent to light produced by a 100-watt incandescent bulb. For use in average-size kitchens, basement work areas, small offices, dens, etc. Handsome chrome finish. With 12" diameter, 32-watt Circline lamp. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs. 91 NX 279. EACH. 8.95
3 or More, EACH. 8.06

F FLUORESCENT STRIP-LIGHT FIXTURES

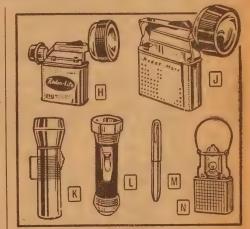
Finished in handsome white, baked enamel for maximum light intensity and easy washing. Can be installed on walls or ceilings, flush or suspension mounted, singly or in continuous rows. Types 4002, 4004 are normal power factor; 4031 has high power factor. 9308 and 9328 are Slimline-type units. Less lamps. *Equipped with starters. For 110-120 v., 60 cycle AC. U.L. Approved.

Stock	Mfr's	No.	Watts	1 orth	Wt.	NET I	EACH
No.		Lamps	watts	Lgui.	Lbs.	Single	3-Up
91NX177	4002*	1	20	24"	4	2.76	2.54
	4004*		40	48"	6	4.59	4.24
9 INX 179	4031*	2	40	48"	8	8.91	8.23
91NX188	9308	1	75	96"	30		13.70
91NX189	9328	2	75	96"	30	15.00	13.70

BURGESS QUALITY LANTERNS AND FLASHLIGHTS

Model TW3. A super-power, all purpose lantern with sealed-beam lamp. Automatic red flashing signal swings 90° on movable arm. Battery is lantern body—can be changed in seconds. Chrome handle. 11¼x9¼x3½″. Lamp has 43¼″ dia. With TW1 6-volt battery. Shpg. wt., 6 lbs. %t., 6 lbs. 55 J 342, List, \$12.95. NET.......8.28

Model 350. A fine 2-cell flashlight. Fiber barrel with rubber cushioned head, end cap. Prefocused and weatherproof. Uses two No. 2 cells. With lamp. Less batteries. 1 lb. 55 J 338. List, \$1.90. NET. 1.28 Model 450. As above, but uses three No. 2 cells and PR3 lamp. Less batteries. 1½ lbs. 55 J 339. List, \$2.15. NET. 1.44



Model 152 Slim-Line Penlight. Tu-Tone and chrome finish. Uses two No. 7 cells. Supplied with No. 224 bulb. Less batteries.

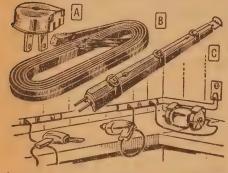
Model TW7. Here's an outstanding

Model TW6E. Emergency floodlight. Plug this unit into any 110-v. outlet; when AC power fails, it automatically switches on a powerful light that diffuses over a wide area. Battery life: 15 hours, continuous. With mtg. bracket. 6' cord, TW16-v. batt. Shpg. wt., 6½ lbs. List, \$20.25.





"SNAP-IT" INTER-LINK **ELECTRIC OUTLET KITS**



A quick, easy way to add safe, extra outlets anywhere at home, shop or factory. Simply plug swivel cap (Fig. A) into existing outlet—extend it by plugging flexible link (Fig. B) into flexible link. Flexible link and outlet links follow wall contour and fasten with nails. Rated 15 amps at 125 v. AC. U.L. Approved. 1162—6-Ft. Kit. Consists of swivel cap (Fig. A) 5-ft. flexible link (Fig. B) and 3-outlet link (Fig. C). Shpg. wt., 134 lbs.

2.45

1163—12-Ft. Kit. Consists of swivel cap (Fig. A) 11-ft. flexible link (Fig. B) 3-outlet link (Fig. C). Shpg. wt., 2½ lbs.

50 N 451. NET.

3.92

C 3-Outlet Link, 1 lb. 50 N 452. NET.... ACCESSORIES FOR EXTENSION USE

Stock No.		Description	Wt.	NET
50 N 453 50 N 454		Inter-Link Link Inter-Link Swivel Cap Plug-In	5 oz. 2 oz.	.73
50 N 455	183	Inter-Link 3-Ft. Flexible Link	½ lb.	.73
50 N 456	185	Inter-Link 5-Ft. Flexible Link	¾ lb.	1.22
50 N 457	191	Inter-Link 11-Ft. Flexible Link	1¼ lbs.	2.69

CONSOLIDATED WIRE POWER **EXTENSION CORDS**



Heavy-duty, 3-conductor power extension cords for use with power tools, hedge trimmers, etc. Have molded 3-prong plug at one end, 3-prong receptacle at other end. U.L. Ap-

			DA	orcu.	Diaca.	
Stoc	k No.	Length	G	auge	Lbs	NET
	916	25 ft.		18	11/	
	917	50 ft.		18 18	3 6	3.35
50 N	919	25 ft		16	2	2.45
50 N	-	50 ft.	1300	16	4	3.70
50 N		100 ft. 25 ft.		16 14	8 4	6.95
50 N	923	.50 ft.		14	8	6.95
50 N	924	100 ft.		14	15	11.95

BELDEN EXTENSION AND REPLACEMENT CORDS



LIGHT-DUTY CORDS

Flexible, rubber-covered replacement cords. Have unbreakable vinyl plastic plugs at one end, other end stripped. All are Fig. D, 2-conductor except *Fig. E, 3-conductor with 3-prong plug. Cover black except †brown, §gray. U.L. Approved. Av. shpg. wt., ¾ lb.

Stock No.	Mfr's Type	Length	Gauge	NET
50 N 925 50 N 926 50 N 927 50 N 928 50 N 929 50 N 930	17129S† 17330S 17308S 17206S§	9 ft. 10 ft. 8 ft.	SV 18	.44 .86 .65

F HEAVY-DUTY EXTENSION CORDS

Flexible 2-wire cord with molded vinyl cord-holder plug and plastic connector. Types 17395S and 17397S are ideal for electric lawn mowers, yard extensions. Cover: *gray rubber, †black rubber, §red vinyl. U.L. Approved.

Stock No.	Mir's Type	Length	Gauge	Lbs.	NET
50N 931		20'	SV 18	1	1.08
50N 932		10'	SJ 16	1	.94
50NX933		50'	SJT 16	31/4	3.68
50NX934	17397S§	100'	SJT 16	61/2	6.98

CORDS FOR HEATER-TYPE APPLIANCES

Replacement line cords for 125 volt heater-type appliances. All have molded-rubber wall plugs, black neoprene covered and self-coiling (extend to 6 feet) except *asbestos cotton wrapping and 7 feet long. Types without appliance plugs have terminals for screws. †on-appliance plug. Av. shpg. wt., ½ lb.

-			F-61	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Stock No.	Type	Fig.	†Pin Spacing	Amps	NET
50N 935		H	1/2", slotted	10	.99
50 N 936 50 N 937		H	11/16", W/o slot	10 15	1.07
50N 938	17836 S	Ü	None	10	.83
50N 945	*17727S	G	None	15	.73

CUBE TAP EXTENSION CORDS

K Sturdy, long lasting brown vinyl-covered extension cord. Has unbreakable molded vinyl plug and three-way connector. Cord is SPT rated, 18 gauge (41x34), two-conductor wire. U.L. Approved.

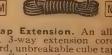
Stock No.	Туре	Length	Shpg. Wt.	NET
50 N 939		6'	1/4 lb.	.42
50 N 940		9'	1/2 lb.	.47
50 N 941		12'	1 lb.	.53
50 N 942	17165S	15'	1 1/4 lbs.	.60

ELECTRICAL CORD **VALUES**



Cube Tap Extension. 3-way extension tap. Rated at 15 amps 125 volts; 10 amps 250 volts. With 6-foot cord and bakelite plug cap. Brown. Shpg. wt., 7 oz. 52 N 605. 10 or More, EA...33, EA....37





Rubber Cube Tap Extension. An all-rubber, solderless, 3-way extension cord set. Consists of 9-ft. cord, unbreakable cube tap and plug. No. 18 wire. Spring-action contacts in cube receptacle provide positive connection with plugs. Brown. Shpg. wt., 8 oz. 52 N 608. NET.....

BELDEN TV LINE CORD



Model 8895. 6-ft. long, has 2-cond., 18-gauge brown vinyl cord, plastic plug. 1 lb.

WIRE CONNECTORS



Solderless wire

Wire	Stock	Pkg.		Pkg.
Size	No.	of 25		of 100
16-18	52 N 874	.30	52 N 870	.95
14-18	52 N 875	.40	52 N 871	1.35
12-18	52 N 876	.45	52 N 872	1.65
10-18	52 N 877	.75	52 N 873	2.80

ELECTROSTRIP FLEXIBLE OUTLET KIT



Unique 4-ft. electrical strip for easy installation on baseboard, wall, workbench, etc. Includes 3 outlets which may be moved to

Needed! be moved to any point along strip. Has 12" cord with plug for feeding power from regular wall outlet to the strip. Rated 15 amps at 125 v. AC. Shpg. wt., 1½ lbs. 2.62

NEW CBC MULTIPLE OUTLET BOXES



MO-3

New outlet boxes for extending power to bench, lab, etc. All are fused at 15 amps, 110 v.; have 10-ft. line cords and on-off switches. Individual models offer features to meet any need. Type MO-GD has pilot light and six 3-wire, "U" grounded outlets with 3-wire plug. Type MO is identical except. 2-wire outlets and plug. Type SS has four outlets with each outlet individually switched. Type MO-3 has three outlets, one switch. All have brown hammertone metal cases with mtg. ears.

Stock No.	Mfr's Type				NET EA.
50 N 948 50 N 949	MO:		13x21/4x11/2" 13x21/4x11/2"		7.95 6.25
50 N 950 50 N 951		4	13x2½x1½" 5x2x1¼"	21/4	6.25

ELECTRICORD, "REDY-REEL"



Model 5C2216-100 R. Model 5C2215-100 H, Handy power cord on portable reel assembly. Contains 100 ft. of No. 16, 2-conductor cord, covered with red vinyl insulation. Has stand of ½" cadmium plated steel rod; heavy steel reel. 11 lbs.

50 NX 301, NET.. 8.95

DUTCH BRAND TAPE

Friction Tape. Very popular standard width tapes. Find widespread uses in radio, electrical, home and shop applications. Have tough, long-wearing fabric base which resists the effects of abrasion and weathering. Makes tight insulated wrapnings Av. wt. 7 02.



Stock	6:	NET PER ROLL				
No.	Size	1-29	30-99	100-Up		
52 N 610 52 N 611 52 N 612	3/4"x13' 3/4"x32' 3/4"x68'	.14	.13	.12		
52 N 620	3/8"x60'	.21	.20	.19		

52 N 623. ½"x108'.	NET PER	ROLL 1.84
6-47, EACH 48-Up, EACH		1.69

SCOTCH PLASTIC BACKED TAPE

Type 33. Plastic-backed electrical tape. .007" thick; 10,000 v. dielectric strength. Molds easily to irregular surfaces, allowing neat, compact insulated wrappings. Highly resistant to chemicals, abrasion, oil, salt water, weather. Av. shpg. wt., per roll, 6 oz.



Stock No.	Size	Per Roll	12-Up,	EACH
52 N 613 52 N 616	3/4"x20'. 3/4"x66'	1.47	1.3	

Type 88. All-weather, 8.5 mil plastic-backed
electrical tape. Makes splice wrapping easy in
cold weather, yet retains body for easy applica-
tion at normal temperatures. Abrasion, oil, and
flame resistant. 3/4"x66'. Wt., 6 oz.
flame resistant. 3/4"x66". Wt., 6 oz. 1.75 52 N 700. NET PER ROLL 1.58
12-Up, EACH

NEW SPECIAL VALUE TOUCH-A-MATIC NITE-LITE

New nite-lite features Touch-A-Matic switch for outstanding convenience. Works on the slightest pressure—can be pushed. flipped or kicked. No need to bend or stoop for lights plugged into baseboard outlets. Supplied with long-life, 3000-hour bulb. Ideal for bedrooms, nurseries, bathrooms, basements, stairways, etc. Other features include: modern streamline design that hugs the wall, adjustable shade that rotates full turn 360°, and choice of colors brown or ivory. 316″ long. Shng. wt. 4 oz.

bro 50	wn or iv N 904.	vory. 3½" long. Shpg. wt., 4 oz. 1vory. NET	
50	N 905.	Brown. NET42	
52	E 356.	Repl. Bulb. 4 oz. NET22	



NEWEST ADDITIONS TO ALLIED'S ELECTRICAL LINE















Bakelite Triple-Cord Connector. Allows user to supply three outlets from one outlet. Rated at 15 amps at 125 v. Less cord. Brown color Wt. 2 are

Flat Rubber Side Outlet Plug. Neatly designed plug has side outlet for wire. Has Flat Rubber Side Outlet 1. designed plug has side outlet for wire. Has brass prongs molded into vinyl; binding screws separated by insulation; and completely enclosed wiring. Rated, 15 amps at 125 volts.

G H Cinch-Jones Cable Clamps. Designed for cables from 1/6" to 5/8" dia. *Center. All are Fig. G except 85D which is Fig. H. Shpg. wt., 2 oz.

Stock	Mife	Dia of	Hole* to	NET	EACH
No.	Туре	Arc	Arc*	1-49	50-99
51 N 350 51 N 351 51 N 352 51 N 353 51 N 354 51 N 355	85B 85C 85D 85E	1/8" 5/16" 5/16" 1/2" 5/8"	1/4" 3/8" 3/8" 1/2" 7/16"	.024 .02 .02 .02 .02	.02

VALUES IN HANDY ELECTRICAL ACCESSORIES





L







P



R









X







AA

Rubber-Handle Plug. Unbreakable soft-rubber. Approved for power tools. Excel-lent for use with 52 N 603, right below, for line cord extensions. U.L. Approved. 2 oz.

Parallel Ground Plug. Sturdy, rubber handle plug with "U" ground. Small enough so that 2 will fit standard duplex receptacle. With cable clamp. U.L. Approved. 2 oz. 38

Rubber Cube Tap. Spring-action, 3-way outlet of one-piece, soft rubber. U. L. Approved. Shpg. wt., 4 oz. N 076. NET22

Continental Adapter. Male-female adapter. Permits using standard flat-prong American plugs in Continental Europe outlets designed for round prongs. Wt., 2 oz.

P Academy Automatic Plug. No wire stripping. Just insert through cap. Sure-grip "needles" on prongs make positive connection through insulation. For POSJ cable only. U.L. Approved. Shpg. wt., 3 oz. 12

Morse Midget Cord Connector. Midget 2-contact pull-apart type cord connector. For use in connecting AC-DC line cords, phonograph motors, pilot light sockets, relays, control circuits, etc. Consist of one plug and one matching receptacle. Knurled edges provide sure grip for easy disconnection. Size, 11% long, %6" diameter. Shpg. wt., 2 oz. 52 N 626. 10-Up, EA....54 1-9, EA...59

Academy Three-Way Outlet. Standard, 2-conductor outlets. Connect up to three standard power cord plugs. Easily installed. No wire stripping necessary. Rated 15 amps at 125 volts or 10 amps at 250 volts. U.L. Approved. Shpg. wt., 5 oz.

52 N 622. Mahogany Plastic. NET 52 N 619. White plastic. EACH...20

Rubber Line Cord Receptacle. Rubber W pull-handle receptacle. Has knurled body for easier gripping. Cable clamp helps protect connections. Dia., 1¼". Rated 15 amps at 125 volts. U.L. Approved. Shpg. wt., 3 oz. 52 N 603, NET26

Parallel Ground Rubber Receptacle.
Solidly-built 3-contact connector, Has phosphor bronze contacts rated 15 amps at 125 volts. Cord hole is 3/s". Cord clamp is furnished to protect cord under heavy-duty use. U.L. Approved. Shpg. wt., 3 0%.

78

Parallel Ground Adapter. Adapts 3-prong AC outlets. Rated, 15 amps at 125 v. Has 3' wire with grounding lug, U.L. Approved. Shpg. wt., 3 oz.

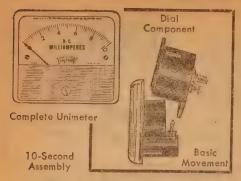
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Reference Screwin plug fuses fit

Plug Fuses. Screw-in plug fuses fit standard fuse holders. Clear view—easy to see when fuse has blown. U.L. Approved. Shpg. wt., 8 oz. 5 per box.

Fused Plug. Protects unfused electrical equipment from damaging overload. Small fuses for each side of line fit snugly in cylindrical receptacles—blown fuse is easily removed for quick replacement. Interchangeable with any standard AC plug. Supplied less 3AG cartridge fuses. (See Index for fuse listings.) U.L. Approved. Shpg. wt., 30z.

TRIPLETT UNIMETERS—WITH INTERCHANGEABLE RANGES



In 10 seconds . . . the precision meter of your choice. 2 basic movements plus interchange-able face plates give you a complete range of meters. Unimeter consists of separate sections (movement and dial component) which can be snapped together instantly for exact scale range you need. Just select the desired dial component and slide it into the movement. No soldering or wiring necessary. Two parts lock together with thumbscrew on back. Check these features: self-shielded Bar-Ring movements; AC and DC linear scales; extreme accuracy; dust-proof construction; error-proof assembly; instant conversion; standard mounting. 4½ dials have mirror scales for parallax-free readings. Movements and dials are individually calibrated to 1%.

BASIC MOVEMENTS

0-1 DC MA and 0-50 DC μA , *DC μA movement is used with DC μA dial components only. Av. wt., $1\frac{1}{2}$ lbs.

Stock No.	Model	Size	Basic Movement	EACH
87 F 34 1	327-U 420-U	31/2"	0-1 DC MA -50 MV 0-50 DC μ A -250 MV 0-1 DC MA -50 MV 0-50 DC μ A -250 MV	17.50

31/2" AND 41/2" UNIMETER KITS

Kit A. One 3½" 0-1 DC MA movement; dials 0-1, 0-10, 0-100, DC MA; 0-1, 0-10, 0-25, DC AM; 0-50 DC VM, 0-150 AC VM. Wt., 6 lbs. 66 FOIL NET. .32.50

66 F 012. Above with 41/2" movement. 33.60

66 F 014. Above with 41/2" movements. 56.70

Kit C. Four $3\frac{1}{2}$ " movements: three 0-1 DC MA; one 0-50 DC μ A; 23 dials: three 0-1, one 0-10, 0-50, two 0-100, one 0-300, 0-500 DC MA; 0-1, 0-10, 0-25, 0-50 DC AM; two 0-50, one 0-300 DC VM; two 0-150, one 0-300 AC VM; 0-50, 0-100, 0-200, 0-500 DC μ A. Shops wt., 12 lbs.

66F021. Above with 41/2" movements. 113.90

DIAL COMPONENTS

All dial components are used with 0-1 DC MA basic movement except *for use with 0-50 DC \$\mu\$a basic movement. Accuracy well within 2\$\mu\$ full scale. †1000 Q/V film type. \(\) Rectifier type 500 Q/V. Shpg. wt., 2 oz. When ordering, specify dial range, size and stock number.

DIAL COMPONENT RANGES

0-1	DC	MA	0-500	DC	MA	0-25	DC	Ammeter
0-5	DC	MA	0-10	DC	Volts †	0-50	DC	Ammeter
0-10	DC	MA	0-25	DC	Volts†			Volts &
C-15	DC	MA	0-50	DC	Volts†	0-150	AC	Volts 8
0-25	DC	MA	0-150	DC	Volts †			Volts §
C-50	DC	MA	0-300	DC	Volts †:	0-50	DC	μa* °
C-100			. 0-500	DC	Volts†	0-100	DC	из*
0-150	DC	MA	0-1	DC	Ammeter	0-200		
0-200	DC	MA	0-5	DC	Ammeter	0-500		
0-250	DC	MA	0-10	DC	Ammeter			
0-300	DC	MA	0-15	DC	Ammeter .			

3½" Stock No.	4½" Steck No.	Scale Values (Range)
87 FF 338 87 FF 339 87 FF 340	87 FF 438 87 FF 439 37 FF 440	0-1—500 DC milliamps 0-10—0-500 DC volts 0-1—0-50 DC amps 0-10—0-300 AC volts 0-50—0-500 DC microamps*

NET EACH.

Unimeter Stand. Not illus. Holds meters accorrect angle. 5-way terminals fit plain wire, alligator clips, etc. 43/4x6" base. 11/2 lbs. 3.30

RUGGED, RELIABLE EMICO PANEL METERS







RF-2C



RF-21/4C



Model 13 Edgewise

Dependable panel meters at low price. DC meters have "HI-TORK" magnetic movements; AC meters are moving iron type. All are accurate to within 5%. Calibrated in steel cases, meters need no further adjustments. Model RF-21/4C has Plexiglass front. All have black enameled or zinc irridite steel cases. Dimensions (overall depth and flange size): NF-2C, 11/4x21/4"; RF-2C, 11/6x21/4"; RF-21/4C, 11/6x21/6"—fit in 21/6" dia. hole; Model 13, all plastic 1/4x11/6x21/6". All have screw terminal binding posts and/or lugs for solder connections. Mounting hardware included. Av. wt., 9 oz.

DC MILLIAMMETERS TO BE TO THE PROPERTY OF THE																
		I NF-2C		1		Model	RF-2C	3 200 1	1 191	Model R	F-21/4C	*	Mo	del 13 E	dgewis	e
Range	Stock No.		25-49, EACH	EACH	Stock No.	EACH	25-49, EACH	EACH	Stock No.	1-24, EACH	25-49, EACH	EACH	Stock No.		25-49.	
0-1 0-5 0-10	67 F 609 68 F 970 67 F 600	3.63 2.30 2.16	3.33 2.11 1.98	3.15 2.00 1,87	67 F 614 68 F 97 67 F 615	2.37	3.37 2.16 2.02	3.19 2.04 1.91	63 F 012 65 F 022 68 F 013	3.97 2.65 2.50	3.64 2.43 2.29	3.44 2.30 2.17	66 F 023 66 F 024 66 F 025		3.64 2.43 2.29	3.44 2.30 2.17
0-20 0-30 0-50 0-100	67 F 601 67 F 602 67 F 603 67 F 604	1.86	1.71	1.62	67 F 618 67 F 618 67 F 618	1.96	1.80	1.70	68 F 014 68 F 015 68 F 016 68 F 017		2.07	1.96	66 F 026 66 F 027 66 F 028 66 F 029		2.07	
0-150 0-200 0-300 0-500	67 F 605 67 F 606 67 F 607 67 F 608	1.86	1.71	1.62	67 F 620 67 F 622 67 F 622	1.96	1.80	1.70	68 F 018 68 F 019 68 F 020 68 F 021		2.07	1.96	66 F 030 66 F 031 66 F 032 66 F 033	2.25	2.07	1.96
O.15 167 COLOR OF THE PROPERTY																
0-15 0-50 0-150 0-300	67 F 665 68 F 978 67 F 666 67 F 667	2.99 2.99 3.53 4.12	2.74 2.74 3.24 3.78	3.06	67 F 670 68 F 979 67 F 671 67 F 672	3.09	2.83 2.83 3.33 3.82	3.15	68 F 022 66 F 038 68 F 023 68 F 024	3.38 3.38 3.92 4.46	3.10 3.10 3.60 4.09	2.93	66 F 034 66 F 037 66 F 035 66 F 036	3.38 3.38 3.92 4.46	3.10 3.10 3.60 4.09	2.93 2.93 3.40 3.87
								MMETE		gar haz	. 1950	3.07		7.40	36 ,03	3.07
0-1 0-5 0-10 0-15 0-25	68 F 972 68 F 974 67 F 650 66 F 039 68 F 976	1.86	1.71		68 F 973 68 F 975 67 F 656 66 F 041 68 F 977	101	1.80	170	68 F 025 66 F 043 66 F 044 66 F 045 66 F 046	2.25	2.07	1.96	66 F 048 66 F 064 66 F 070 66 F 073 66 F 074	2.25	2.07	1.96
0-30 3-0-3 20-0-20 30-0-30	66 F 040 67 F 651 67 F 652 67 F 653	1.86	1.71	1.62	66 F 042 67 F 657 67 F 658 67 F 659	1.96	1.80	1.70	66 F 047 68 F 026 68 F 027 68 F 028	2.25	2.07	104	66 F 080 66 F 082 66 F 083	2.25	2.07	1.96
DC VOLTMETERS																
0-15 0-20 0-30	67 F 630 67 F 631 67 F 632 66 F 090 66 F 091 68 F 980 68 F 982	1.86	1.71	1.62	67 F 635 67 F 636 67 F 637 66 F 169 66 F 193 68 F 981	1.96	1.80	1.70	68 F 082 68 F 083 68 F 084 66 F 092 66 F 096 66 F 097	2.25	2.07	1.96	66 F 188 66 F 189 66 F 190 66 F 191 66 F 192	2.25	2.07	1.96
							AC A	MMETE								
0-5	68 F 984 67 F 646 67 F 647	2.99	2.74	2.59	68 F 985 67 F 648 67 F 649	3.09	2.83	2.68	68 F 085 68 F 086	3.38	3.10	2.93	66 F 195	3.38	3.10	2.93

AC MILLIAMMETERS

| 67 F 640| 2.99 | 2.74 | 2.59 | 67 F 643| 3.09 | 2.83 | 2.68 | 68 F 029| 3.38 | 3.10 | 2.93 | 66 F 212| 3.38 | 3.10 | 2.93 0-500

_Panel Meters, Testers, Rectifiers

Simpson "Wide-Vue" 31/2" and 41/2" Panel Meters

EASIEST TO READ ...

Reduce eye-strain—get accurate meter readings at a glance. "Wide-Vue" panel meters feature longer scales than conventional types. 3½" meter has a scale more than ½" longer than conventional meter scales. Wide spacing between scale calibrations increases readability from greater distances with less strain on your eyes. All panel meters have one-piece, wrap-around plastic covers. Break-resistant covers provide maximum protection for meter faces against accidental blows or dropping. All DC meters, except 0-25 and 0-50 microammeters, have "self-shielded" core magnet movements. Core magnet movements are not affected by steel panel mounts or proximity of meter to magnetic fields.

	METI	ER DIMENSI	ONS	
Model	Flange	Body Dia.	Depth	Scale
1327	3.25x3.25"	2.73"	1.08"	3.14"
1329	4.00x4.68"	2.75"	1.08"	3.93"
1357	3.25x3.25"	2.73"	1.22"	3.14"
1359	4.00x4.68"	2.75"	1.20"	3.93"

0-25, 0-50 DC microammeters have external magnet movements; AC meters have iron-vane movements. "Wide-Vue" meters are practical for use in communications equipment, measuring instruments, Ham gear, etc. Fine quality meters give dependably accurate readings within $\pm 2\%$. Av. shpg. wt., 1 lb.



DC VOLTMETERS

4-	Model 132	7-3½"	4. 7.	美		-41/2"	1.30 1.	
Stock		NET EACH		Range	Stock		NET EACH	
No.	1-9	10-24	25-49		No.	1-9	. 10-24	25-49
68 F 991 68 F 149 68 F 150 68 F 151 68 F 152	14.25	12.83		0-5 0-10 0-15 0-50 0-100	68 F 992 68 F 157 68 F 158 68 F 159 68 F 160	A Same	14.18	13.39
68 F 153 68 F 993 67 F 660 68 F 155	14.25	12.83	12.11	0-150 0-200 0-250 0-300	68 F 161 68 F 994 67 F 661 68 F 163	13./3	14.18	13.39
68 F 905 68 F 995	15.00	13.50	12.75		68 F 906 68 F 996		14.58	13.77

DC				AAA	See after See St.	20
UC	M	191	I ALD	n_{NN}		(2)
		حنطة	المنطالية			_

68F 181 67F 662 68F 182 68F 907 68F 969	50 12.15	II.48	68 F	663 187 908	25 12.83	12.11
68 F 183 68 F 184 68 F 185 68 F 909 68 F 998 67 F 668	80 12.42	0-2	68 F 60 68 F 60 68 F 60 68 F 60 68 F 60 67 F	189 190 15.0 910 999	00 13.50	12.75

DC AMMETERS

68 F 165 68 F 166 68 F 166 68 F 170	13.65	12.29	11.60)-1)-1.5)-5)-10)-15	68 F 68 F 68 F 68 F	174	15.00	13.50	12.75
68 F 17 I 68 F 913 68 F 915 68 F 062 68 F 063	13.65	12.29	11.60)-100)-150	68 F 68 F 68 F 68 F	916	15.00	13.50	12.75
68 F 064 68 F 065 68 F 067	13.65	13.10	11.60 11.60 12.37 12.37)-500 5-0-15	68 F 68 F		15.00 15.00	13.50 13.50	12.75

DC MICROAMMETERS

· I M	odel 1327	7-31/2"			-			
Stock	NET EACH		Range	Stock	NET EACH			
No.	1-9	10-24	25-49		No.	1-9	10-24	25-49
68 F 074 68 F 191 68 F 192 68 F 193	20.10	18.09	17.09	0-25 0-50	68 F 075 68 F 195 68 F 196 68 F 197	22.20	22.14 19.98 16.61 15.66	20.91 18.87 15.68 14.79
67F 673 68F 194 68F 917 68F 919	15.75	14.18	13.39	50-0-50 100-0-100	67 F 674 68 F 198 68 F 918 68 F 920	17.55	16.74 15.80 14.31 12.96	15.81 14.92 13.52 12.24

AC VOLTMETERS

		Model 1357—3½"					Model 1359-41/2"				
68 F 921 12.60 11.34 10.71 0-15 68 F 922 14.40 12.96 12.24		Stock				Range	Stock				
	_	No.	1-9	10-24	25-49		No.	1-9	10-24	25-49	
68 F 923 3 O5 1 75 1 O9 0.50 169 F 924 14 40 12 94 12 2											
68F											

AC AMMETERS

68 F 167 12.45 11.21 10.58 68 F 169 12.45 11.21 10.58		68 F 175	14.55 13.00 12.37 14.55 13.00 12.37
68 F 076 12.90 11.61 10.97	0-25	68 F 077	15.00 13.50 12.75
68 F 172 12.90 11.61 10.97	0-50	168 F 180	15.00 13.50 12.75

AC MILLIAMMETERS

68 F 927 12.90 11.61 10.97 0-100 68 F 928 14.55 13.10 12.37 68 F 929
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NEW 31/2" SEGMENTAL VOLTMETER

Type 1347C. Expanded segmental scale registers 100-130 AC volts. Meter is used primarily in monitoring line voltage. Critical scale range improves accuracy and readability. 3.14° scale. Operating frequency range 20-2000 cps. Accuracy ± 5% of center scale value. Frequency influence is less than 0.5% of center scale value. Sensitivity: 160-100 ohms/volt end scale values. Features core magnet meter movement. Shps. wt., 1 lb.
66 F 081. NET. 40.80

STERLING BATTERY TESTERS



Sterling pocket-size meters for general purpose testing of dry and wet cell batteries. Dependable Sterling testers are compact and easily portable. 2½" dia., 5%" thick. Nickel plate finish. 5% calibrated accuracy. With lead. Av. wt., 6 oz.

Stock No.	Mfr's Type	" Scale	Batteries That Can Be Tested	NET EACH
55F 082 55F 083 78F 025 55F 084 55F 085	24 38A 44	0-35A 1-2-100V 0-10V, 0-35A	Radio, Industrial Hot Shot, #6 Dry.	4.05 2.25 2.70 2.76 3.45

A

J-B-T METERS



Type 31-EX Elapsed Time Meter. Self-starting synchronous AC meter. 1/10 hr. steps to 9999.9 hrs. Automatic reset. 3½" flanges; mounts in 2¾" hole. 3½" depth. For 100-120 v., 60 cycle AC. Wt., 1¼ lbs. 15.95

EMICO AC VOLTAGE TESTER



Detects low line voltage. 2-prong male plug. 90° swivel head permits easier readings from any position. Range, 0-150 volts. 2" meter has damped movement. Accuracy ±5%. Metal case. 8 oz. 3.38

67 F 626. NET...

SITTLER LOW-VOLTAGE TESTER



Type T202. Handy low voltage tester indicates from 5-50 volts AC-DC. Uses incandescent lamp. Has red and black leads with alligator clips for duse Shop yrd 3 oz

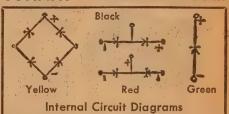
with alligator clips for easy identification and use. Shpg. wt., 3 oz. 99 42 F 406. NET
Type 203. Similar to the above voltage tester, but tests from 2½-24 volts AC-DC.
42 F 407. NET

UNIVERSAL METER CASE



Front panel holds 2" meter. Knockout ring enlarges hole for 3" meter. 1-piece back and bottom attach with 2 screws. Red binding posts; banana jacks in heads. Black wrinkle finish. Size, 41/4x 4x4" without posts. Wt., 11/4 lbs. 66 F 506. NET...1.49

CONANT INSTRUMENT RECTIFIERS



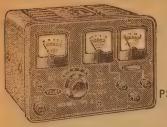
Max. AC input, 5 v.; copper oxide; 24K gold contacts; rev. v.; 2.25 v. DC.; 3" leads; .038" thick. Series 500: 100 ma max. 60 ma DC forward. Resp., 0-1 mc. Dia., .5"; .166" center hole. 6-32 mtg. screw. Series 160: 10 ma max. 10 ma. DC forward. Resp., 0-75 mc. Dia., .166". Two #2 mtg. screws. In polystyrene base housing. Series 160-C. 160 in brass case. 5 oz.

Stock No.	Туре	Series	Body Color	No. of Terms	Av. Output DC MA	NET EACH
68 F 041 68 F 043 68 F 047 68 F 042	T	500 500 500 500	Yellow Black Red Green	4 3 3 2	100 50 50 50	2.06 1.50 1.50
68 F 040 68 F 044 68 F 046 68 F 037	BHS BT	160 160 160 160	Yellow Black Red Green	3 3 2	10 5 5 5	2.06 1.50 1.50
68 F 038 68 F 045 68 F 048 68 F 049	BHS-C BT-C	160-C 160-C 160-C 160-C	Yellow Black Red Green	3 3 2	10 5 5 5	2.06 1.50 1.50

Conant Inst. Rectifier Handbook. 37 K 170. Postpaid in U.S.A......

Power Supplies, Converters and Rectifiers.

ELECTRO-PRODUCTS POWER SUPPLIES



PS-2 D-612T

MODEL PS-2 DC POWER SUPPLY KIT

MODEL D-612T DC POWER SUPPLY

DC power supply for servicing auto radios, battery charging, etc. Two continuously variable ranges: 0-8 volts and 0-16 volts. Full 10 amps on both ranges. Up to 100% intermittent overload. Less than ½% ripple at 5 amps. Selenium rectifiers feature conduction cooling. Constant metering of voltage and current. 2-pos. range switch; panel-mounted fuse holder. Lab-type output terminals. Rugged blue hammerloid steel cabinet. 7x12x8½". For 117 v., 50-60 cycle AC. Shpg. wt., 22 lbs. 59.95



EC-2 DC POWER SUPPLY

New, versatile DC power supply. Provides well-filtered, adjustable DC output of 0-16 volts at 5 amps. Ripple is less than 0.5% at full output. Extremely compact, space-saving design; measures only 10³/₄x4³/₈x 6¹/₂"; takes up only 4³/₆" on service bench. Portable; easily carried anywhere. Includes combination voltmeter-ammeter pilot light, fuse. In two-tone gray cabinet with carrying handle. For 117 v., 50-60 cycle AC. Shpg. wt., 11 lbs.
65 F 014.\$5 Monthly.NET39.95

EC-1 DC POWER SUPPLY

EC-1 Efficient new power supply provides 12 volts DC with a 5-ampere output. Output is exceptionally well-filtered; has less than 0.5% ripple. Unit is an ideal hum-free power source for use in auto radio servicing and auto radio display stands. The EC-1 is extremely compact in size; measures only 10½x4½x6x6½. Easy to carry wherever it's needed; horizontal or vertical mtg. Has 4-position voltage adjustment switch; off, low, medium and high. Includes pilot light; wing nut output terminals. Regulation is 1.4 volts per amp (no-load to F.L.). DC impedance, 1.4 ohms. In two-tone gray enameled case with carrying handle. For 117 v., 50-60 cycle AC. Shpg. wt., 12 lbs.
65 F 026. \$5 Monthly. NET. 29.95



PERMA-POWER RADIO BATTERY ELIMINATOR

Model "A". Converts battery radios, etc. to 110v. AC operation. Selenium rectifiers for well-filtered DC output. "A" power: 1.35-1.5 v. DC, "B" power: 90v. DC at 13 ma. Fits in battery compartments of most radios. Large variety of sockets. 2½x6½x4½". U.L. approved. For 105-125 VAC. Wt., 4 lbs. 12.40



SENCORE PS-103 "TRANSI-PAK"

Low-cost DC power supply especially de-



NEW PRECISION P-25 BATTERY ELIMINATOR

Versatile transistor radio battery eliminator and battery charger. Supplies continuously variable DC voltage from 0-25 volts. Has center tap for transistor radios without output transformers; also 1.5 volt tap. Reads 0-100 ma DC; 0-25 volts DC. Can be used to simulate weak battery conditions during servicing. Also useful for recharging nickel-cadmium batteries. In sturdy metal case, 61/2x31/2x3". Wt., 2 lbs. 19.55

NEW ELECTROTONE BATTERY CHARGERS





NEW MODEL C-100 HOME AUTO BATTERY CHARGER

Compact 6 and 12 volt charger features 3-position selector for choosing slow, medium or fast charging rates. Accurate ammeter monitors charging rate; voltmater provides check on battery condition. Cigarette lighter plug charges battery through lighter socket. Unit has full wave selenium rectifiers; delivers 10 amps. Has circuit breaker protection throughout. 10x8x71/2". For 110-120 v., 60 cycle AC. 9 lbs.

24.95

Model C-80. As above, but less voltmeter and cigarette lighter accessory plug—uses copper-plated battery clips. Shpg. wt., 9 lbs. 20.95

NEW MODEL C-60 ECONOMY BATTERY CHARGER

Low-cost 6 and 12 volt battery charger. Has accurate ammeter; full wave selenium rectifiers; complete circuit breaker protection. Delivers 8 amps. 10x8x7½". For 110-120 v., 60 cycle AC. 7 lbs. 85 F 002. NET

NEW "TEST-O-CHARGE" BATTERY CHARGER



Highly useful unit that functions as a battery charger, a continuity checker and a shock hazard indicator. Charges 6 and 12-volt auto batteries at a 3 amp rate. Has plug that fits into cigarette lighter socket on car's dashboard—thereby eliminating need for opening up car's hood

dashboard—thereby eliminating need for opening up car's hood and making direct connection to battery. Also recharges 9-volt nickel-cadmium type transistor radio batteries; batteries clip right into socket on unit's front panel. "Test-O-Charge" checks tools, washing machine motors, fans, etc., for short or open circuits. When checking appliances for electrical shock hazard, unit's neon indicator instantly shows any dangerous potentials existing between appliance and ground. Can be used to trace "hot wiring" in circuits. With push-button circuit breaker for overload protection. 51/6x31/6x27/6". For 110-120 v., 50-60 cycle AC: Shpg. wt., 3 lbs.

CORNELL-DUBILIER 12SC14 DYNAVERTER



MALLORY DRY-DISC RECTIFIERS

Top-quality magnesium-copper sulphide rectifiers for use in low voltage DC power supplies. Find extensive applications in battery chargers, battery eliminators, model train power supplies, etc. All are single-phase, full-wave bridge type. Operate in temperature range from -90° F to +265° F.; provide constant output without the need for adjustments. Rectifying film has "self-healing" action; keeps repairing itself with use. Indicates output at full load. Supplied with the following types of mountings: *Insulated bolt; †grounded foot; §insulated stud. J suffix in Type No. indicates universal mounting design.

Stock	Mfr's	ACV DCV			Replacement in	Wt.,	Liet	EACH
No.	Type	Input Out‡	Amps	H. W. D. ,	Equipment	Lbs.	FIST	EACH
56 F 174	IB4R*	3.2 11.7	115	7/8 X 9/16 X 1"	GTC Battery Eliminator	1/4	\$2.90	1.89
56 F 175	IB8R*	6.4 3.4	1.5	7/8 x 9/16 x 1 3/8"	GTC Battery Eliminator	3/4		2.25
56 F 176	IB12R*	9.7 5.2	1.3	~ 7/8 x 9/16 x 13/4"	Electric Fence Supplies	1/4	3.95	2.59
56 F 170	IB12C1J*	9.8 5.1	3.2	15/8 x11/4 x23/4"	Mailory 3C, 6AC4 Booster	3/4	7.25	4.74
56 F 177	IS16CB7*	12.8 6.6	6.0	3x2½x3¾°	Mallory 5535B, 6AC6,	11/2		
					IS16CB7M		12.30	
56 F 171		13.0 6.8		21/8 x 1 3/4 x 3"	Mallery 5535			6.99
56 F 186	1S24C7J §	19.4 10.1	4 .	3 3/16 x 21/2 x 43/4 1	Mallory 12-AC-5-2	21/2	15.45	10.09

EICO POWER SUPPLIES—KITS AND FACTORY WIRED

MODEL 1064-K BATTERY CHARGER KIT

New, easy-to-build 6 and 12-volt battery eliminator and charger kit. Delivers the low-ripple DC necessary for servicing transistorized equipment. Has two DC voltage ranges; 0-8 v. @ 10 amps continuous, 20 amps intermittent; 0-16 v. @ 6 amps continuous, 10 amps intermittent. Ripple; 0-16 v. range, 1% @ 6 amps; 0-8 v. range, 4.5% @ 10 amps. Separate voltmeter and ammeter permit simultaneous monitoring of voltage and current on both ranges, 8½x5¾x7½″. For 105-125 v., 50-60 cycle AC. Wt., 14 lbs.

65 F 029. \$5 Monthly. NET...... 43.95

Model 1064. As, above, but factory-wired. 65 F 030. \$5 Monthly. NET......52.95

MODEL 1020-K POWER SUPPLY KIT

Transistorized DC power and bias supply. Provides variable output voltage up to 30 v. Has dual-range voltmeter (0-6, 0-30 VDC) for monitoring output. Perfect for servicing "hybrid" apparatus or all-transistor equipment. Useful as a DC filament supply, a bias source, and a source of ripple-free DC for lab use.

Maximum continuous output, 150 ma from 0-12 v.; 200 ma from 12-24 v.; 300 ma from 24-30 v. Uses full-wave silicon diode rectifier circuit with electrolytic capacitor input filter followed by two power transistors in a cascaded filter circuit. Filters insure extraordinary ripple rejection—maximum ripple at full load is only .005%. Fuse protects circuit in case of overload; pilot light remains lit if fuse blows.

Model 1020. As above, but factory-wired. 83 F 969. \$5 Monthly. NET............27.95









-1064-K

1020-K

1073-K

1060-K

MODEL 1073-K METERED VARIABLE AC BENCH SUPPLY KIT

Easy-to-build, lab type variable AC bench supply. Provides adjustable output of 0-140 v. AC from 120 v. AC input. Handles 3 amps. Precision voltmeter and ammeter permit simultaneous monitoring of voltage and current. Ammeter has dual range (0-1, 0-3 amps); ranges can be switched while unit is under load. Uses variable auto-transformer of toroidal core design. Auto-transformer and ammeter are separately fused. In steel case, 8½x5¾x7″. With case, parts, instructions. For 105-125 v., 60 cycle AC. Shpg. wt., 16 lbs. 60 cycle AC. Shpg. wt., 16 lbs.

87 FX 354. \$5 Monthly. NET 35.95

Model 1073. As above, but factory-wired. 87 FX 355. \$5 Monthly. NET......47.95

Model 1078-K. Same as Model 1073-K above, but reads 0-2.5 and 0-7.5 amps. Wt., 16 lbs. 87 FX 356. \$5 Monthly. NET....... 42.95

Model 1078. As above, but factory-wired. 87 FX 357. \$5 Monthly. NET......54.95

MODEL 1060-K DELUXE BATTERY CHARGER-ELIMINATOR KIT

Model 1060. As above, but factory-wired. 83 FU 876. \$5 Monthly. NET......47.95

Model 1050-K Battery Eliminator Kit. For 6 and 12 v. auto radios. Same as Model 1060-K above, but less smoothing filter. Shpg. wt., 83 FX 175. \$5 Monthly. NET..... 29.95

Model 1050. As above, but factory-wired. 84 FU 341. \$5 Monthly. NET......38.95

A

6-12 V. DC POWER SUPPLIES

Type 610C-ELIF. Specially designed DC power supply for testing and operating autoradios and other DC apparatus from regular 115 volt, 50-60 cycle AC power lines: Provides either 6 volts @ 10 amperes continuous, or 12 volts @ 6 amperes continuous with minimum ripple. Has separate voltmeter and ammeter; full wave selenium rectifier. Toggle switch selects 6 or 12 volts output. 8 position voltage selector adjusts output voltage. Has gray steel case. Size, 6½x9½x8½″. For 105-125 v., 50-60 cycle AC. Shpg. wt., 22 lbs.

80 FU 243. \$5 Monthly. NET......48.95

6 AND 12 V. SHAV-PAKS

Miniature inverters that operate standard AC electric shavers from 6 and 12-volt storage batteries in autos, buses, trucks, boats and planes. Small and compact; measure only 4x 25\%x23\%'; can be kept in glove compartment of car when not being used. The height of convenience for traveling salesmen, executives, sportsmen, tourists, etc. Unit simply plugs into cigarette lighter receptacle on car's dashboard and changes DC battery power to standard 115-volt AC for shavers, other small electrical devices. Both 6 and 12-volt models provide 115 volts, 60 cycle AC output at 15 watts. In gray hammerloid steel case. Shpg. wt., 2\%z 1bs.

Stoc	k No.	Туре	DC	Input	List	NET
81 1	944	6-SPB 12-SPB	6	volts	\$11.95	7.81
811	945	12-SPB	12	volts	11.95	7.81

ATR HIGH-QUALITY INVERTERS AND POWER SUPPLIES DC TO AC UNIVERSAL INVERTERS

Ruggedly Constructed

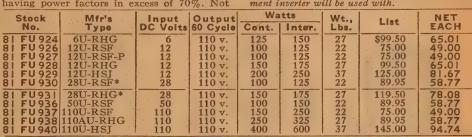
Exceptionally Stable

 Completely Suppressed Against RF Interference

Universal inverters for operating 115-volt. 60 cycle AC equipment from DC voltages in autos, buses, trucks, boats, trains, planes; and areas with DC power distribution. For standard 115-volt AC tape recorders, TV sets, radios, PA systems, electric razors, test equipment, etc. Carefully engineered and constructed for dependable operation. Operating efficiency is in excess of 75%. Four-point voltage regulator corrects output voltage for minimum and maximum loads, and also helps compensate for input voltages lower or higher than normal. Recommended for use with loads having power factors in excess of 70%. Not

recommended for

recommended for large motor driven appliances such as refrigerators, washing machines, etc. All have On-Off switches. In gray hammerloid metal cases with carrying strap. Sizes: RSF, 8½x9½x5½″; RHG, 6½x11½x8½″; HSJ, 6½x12½x8½″. With battery clips; model with "P" suffix has adapter cord for auto cigarette lighter sockets. *Recommended for 24-volt battery operation. Before ordering, check wattage rating of equipment inverter will be used with.



PORTABLE PLUG-IN TYPE DC TO AC INVERTERS



Lightweight inverters for operating 110 v. AC equipment from DC voltage sources. Feature excellent frequency stability and high efficiency. 6 and 12-volt units plug into cigarette lighter receptacle of any vehicle; others are equipped with standard 2-prong plugs. All are designed especially for use with dictating machines; record players, electric razors, test equipment, etc. Not recommended for tape recorders and large motor driven appliances such as refrigerators, washing machines, etc. Gray hammerloid case with leather carrying strap. Sizes: DME, 5½x4½x2¾"; RME and RMF, 8½x8x3¾". *Recommended for 24-volt operation. RME and RMF, types are equipped with an adjustable, 4-position voltage regulator, calibrated for low, medium, high and maximum loads. All are for use with loads having power factors over 80%. Check wattage rating of equipment before ordering.

Stock	' Mfr's	Input	Output	Wat	tts	Wt.,	List	NET
No.	Type	DC Volts			Inter.	Lbs.	LIST	EACH
80 F 246	6-DME	6	110 v.	30	40	5 .	\$24.95	16.30
80 F 289	6C-DME	6/12	110 v.	30	40	5	28.95	18.91
80 F 247	6-RMF	6	110 v.	60	80	12	49.50	32.34
81 F 941	6C-RMF	6/12	110 v.	60	80	12	54.95	35.91
80 F 249	12-DME	12	110 v.	40	50	. 5	24.95	16.30
80 F 266	12T-RME	12	110 v.	. 90	125	12	49.50	32.34
81 F 942	28-RME*	. 28	110 v.	80	100	12	69.50	45.41
80 FX 218	110-RME	110	110 v.	100	150	12	59.50	38.88

TERADO TRANSISTOR DC-TO-AC 60-CYCLE CONVERTERS



300-Watt Filtered Output

> For TV's Phonos Recorders

> > 50-191



Remote Control

Converts DC to 115 Volt, 60 Cycle AC Output Frequency Stable to Within ½ Cycle Fully Transistorized for Greater Power

Model 50-200 "Atlas" with Remote Control. Same as "Continental" above, but has 200-watt output. 6x10\(^3\)/4x6". Shpg. wt., 21 lbs. 65 FU 031. NET ... 85.33

65 FU 031, NET ... 85.33

Model 50-201 "Titan". Same as "Atlas" above, but less remote control. Shpg. wt., 20 lbs. 65 FU 0 3 2. NET ... 71.87



New Model 50-202 "Dual Continental" with Remote Control. Fully transistorized, heavyduty converter. Converts 12 v. DC to 110 v., 60 cycle AC. Provides 600 watts of filtered output; frequency stable to within ½ cycle. Remote unit mounts on dash; has AC receptacle, variable voltage switch, signal light. 101/4x13x6".

With battery cables. Wt., 60 lbs.

228.03

TERADO CONVERTERS AND CHARGERS

Converters. For operating 110 v., 60 cycle AC devices from car batteries. Converter plug fits auto cigarette-lighter socket, except †clip directly to battery terminals with clips provided; *has 20-ft. input cord and mtg. bracket. Check wattage requirements and battery voltage before selecting converter. Chargers. 1½-amp Tiny Giant for autos and boats. With clips for direct connection to battery terminals; buzzer indicates improper connection. Copper-clad steel case. Pocket-size 5-amp charger is full-wave type with 2 miniature silicon rectifiers. Charges battery through lighter of car, boat or plane with plug supplied; charge indicator light shows battery condition. In steel case. 10-amp charger is similar to 5-amp model, except with ammeter.



VIBRATOR-TYPE CONVERTERS

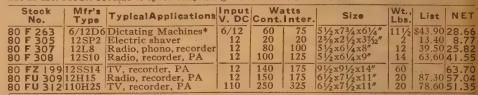
Stock No.	Mfr's Type	Model	Input DC Volts	Watts	Size	Wt., Lbs.	NET
80 F I 94 80 F I 96	50-102 50-103	Auto Shaver Auto Shaver	6 12	10-15 15-20	2x3x4" 2x3x4"	2 2	9.12
80 F 272 80 F 273	50-115 50-116	Senior Senior	6 12	30-50 40-50	2½x2½x4½" 2½x2½x4½"	31/4	15.66
80 F 270 80 F 271	50-126 50-127	Super Super	6 12	60-75 75-100	6x5x4" 6x5x4"		32.65 32.65
81 F 043	50-167	Electral	12	42-52 -	3x5½x2½"	31/4	17.62
81 FU 044	50-175	Recorder	12	150-175	103/4×6×6"	21	65.04
81 F 045	. 50-179*	Sportsman	12	42-52	5½x3x2¼"	4	20.88
80 F 276 80 F 277	50-137† 50-138†	Chief Chief	6 12	75-125 100-125	6x5x4" 6x5x4"	9	45.73 45.73
80 F 197	50-134	Automatic	6 and 12	55-110	4x5x6"	9	37.88
80 FU 193	50-153*†	Supreme	12	175-200	6x6x11"	24	71.87

CHARGERS

Stock	Mfr's	DC QL	tput	Input at		Wt.,	AL POP	
No.			Amps	50-60 Cycle AC	Size	Lbs.	NET	
81 F 400	50-185	6/12	11/2	110/120	21/6x3x51/2"	2	7.50	
8! F 046 8! F 047	50-180 50-181	$\frac{12}{6/12}$	10	110/120 110/120	5 1/4 x 3 x 2 1/4 " 3 1/4 x 5 x 7"	2 ½ 7 ½	13.69	
65 FU 034	50-183	6/12	20	110/120	11x6x6"	22 72	47.99	

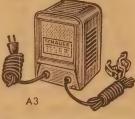
CORNELL-DUBILIER CONVERTERS

Famous "Powercon" DC-to-AC converters. Efficient vibrator-type units recommended for operating AC appliances from DC power sources. All have well-regulated outputs of 110 volts, 60 cycle AC—output stability is maintained regardless of load. Have high ratings for intermittent overloads; wattage figures for intermittent use are rated for power factors from 70-100%. Superior RF filtering assures an output free of "hash"—permits clear, interference-free TV, shortwave, AM and FM reception. Units start instantly, even under heavy load—no warmup period is required. *For small, portable type dictating machines. Model 12SS14 comes in case that provides room for 12-volt battery (supplied less battery). Model 12SP2 is designed especially for use with electric shavers; its small size permits it to be stored in car's glove compartment when not in use. Model 110H25 is specifically designed for use with TV sets.



SCHAUER BATTERY CHARGERS AND ACCESSORIES











4, 6 AND 10 AMPERE BATTERY CHARGERS

4, 6 AND 10 AMPER Compact, efficient battery chargers. Car owners who use their electrical accessories, such as heater, radio, fan, etc., to a great extent find these units excellent for restoring their car batteries to full charge overnight. Models A5612, B4612 and C4612 have selector switches for changing from 6-volt to 12-volt operation. All have automatic safeguard provision against short circuits and overloads. Models A5612, B4612, C4612, B312 and C412 have accurate numeral dial ammeter to show exact rate of charge entering battery. Model A3 is an economy unit that includes full-wave charging output which

makes possible higher efficiency of operation. Has selenium rectifiers for dependable service. Model C4612 will recharge the average 6 or 12 volt battery in 6 hours or less; it is ideal for quick charging during intervals when equipment is not in use, but must be ready in a hurry. Model C412 is a heavy-duty unit for keeping truck or tractor batteries charged; will charge one 12-volt or two series connected 6-volt batteries. All chargers have handy clip terminals for attaching to battery; no need to disconnect or remove battery from car. All units operate from 110-120 v., 60 cycle AC.

Mfr's Charging Type Rate (Amps) Volts Fully Charges
Average Battery in Wt., Lbs. List NET 75 F 283 A5612 80 F 161 A3 80 F 285 B4612 81 F 072 B312 81 F 071 C 4612 80 F 164 C412 \$18.95 | 4.25 12.95 | 9.70 25.95 | 7.70 22.95 | 7.20 6 and 12 10 hours 10 hours 4³/₄ 4 8¹/₂ 8 6 and 12 6 and 12 12 12 7-9 hours 7-9 hours

MODEL A-8478 HANDY "KAR-START"

MODEL A-8478 HANDY "KAR-START"
Helps start cars in cold and wet weather—at instant of starting, "Kar-Start" sends 5 times the normal spark intensity through engine's spark plugs. Has no effect on engine performance—unit disconnects automatically as soon as engine is running; is not harmful in any way to plugs or distributor. Especially helpful on cars normally parked outside in winter—saves battery, gasoline and time. Installs quickly and easily—has only three wires to connect. For both 6 and 12-volt auto ignition systems. 25/ax15/ax2". Shpg. wt., 6 oz.

4.92

TYPE A-8412 CHARGER PLUG



Connects charger to battery by plugging into car's cigarette lighter. May also be used as a replacement plug for power converters. For 12-volt cars. Wt., 4 oz. 1.08

RCA Batteries, Sonotone Rechargeable Battery

RCA PORTABLE, TRANSISTOR, INDUSTRIAL BATTERIES

- You Always Get Freshest Replacement Batteries at Allied
- Tables Give RCA Equivalents for Your Present Batteries

Listing covers types for hundreds of industrial applications and virtually all portable radio types. If you cannot determine which batteries you require, give us the make and type number of original batteries, plus make and model number of your set. *Mercury batteries. §Other voltage taps: 1½, 3, 4½, 6.







PORT	ABLE	"A"	BA	TTER	IES
------	------	-----	----	------	-----

Stock Mfr	s List	NET	Walte	entire they are	Wt.	State of the State			Replaces		
No. Tyr	Price	EACH	Volts	Size	Lbs.	Burgess	Eveready	Philco	Zenith	Mallory	Ray-O-Vac
55 J 736 VS03 55 J 737 VS03 55 J 716 VS03 55 J 744 VS06 55 J 745 VS06 55 J 774 VS06 55 J 774 VS06 55 J 775 VS14 55 J 725 VS23 55 J 725 VS23 55 J 750 VS31	A .20 .20 1.65 1.35 1.00 1.20 1.20 1.4 1.45	.13 .13 .13 .15 .95 .70 .84 .10 .77 .32 1.05	1 1/2 1 1/2 1 1/2 1 1/2 4 1/2 6 1 1/2 1 1/2 1 1/2 7 1/2	%6x13½2" 1½2x11¾6" 1½2x21¾2" 4x1½x21¾2" 4x1½x4½2" 1½2x1½2" 1½2x1½2" 2½x1½2" 1½2x1½2" 2½x1½2" 2½x1¾2x2½2" 2½x1¾2x2½2" 2½xx1¾2x1½2" 2½xx1¾6" 2½x21¾6"	1 oz. 2 oz. 1/4 1 3/4 1 1/2 2 1 1/2 1 1/2	Z 1 2-2R C5 F3 Z4 2D 7 2F 21R D5	915 935 950 717 736 724 720 912 W 353 964 707	P15F P900 P907 P31 P38 K	Z8 Z7 Z2NL Z750 Z736 Z736 Z912	M15F M14F M13F-M M9 M3 M2 M18 M24F M11 M20 M26	7LP 1LP 2LP 9 A3 A2 18 400 11 20 26

PORTABLE "B" BATTERIES

55 J 719 55 J 722 55 J 723 55 J 710	VS016 VS055	3.85 3.50 2.95 3.45	2.70 2.45 2.08 2.42	45 67½ 45 67½	319/ ₃₂ ×127/ ₃₂ ×51/ ₂ " 213/ ₁₆ ×13/ ₈ ×323/ ₃₂ " 221/ ₃₂ ×1×311/ ₁₆ " 213/ ₁₆ ×13/ ₈ ×21/ ₂ "	2 1 3/4 3/4	M 30 X X 45 X X 30 K 45	482 467 455 457	P45 P67 P105	Z783 Z67 Z455 Z457	M202 M200 M201 M203	202 200 201 203
55 J 749 55 J 756 55 J 750	VS218	2.50 3.25 3.95	1.75 2.27 2.77	45 67½ 90	1½6×5/8×3½6" 129/32×1×5½6" 13½2×1½32×7½32"	1 1	U30 P45-M P60	415 477 479	P150 P149 P176	Z415 Z477 Z90	M213, RM415 M211P M214	213 211P 214

PORTABLE "A-R" PACKS

		TORTADIE AD TAGRO	
55 J 778 VS050 7. 55 J 732 VS057W 6. 55 J 776 VS059 7.	7.75 5.43 7½-9-90 2.25 5.08 6-7½-75 6.95 4.87 7½-9-90 6.90 4.83 7½-75	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$)3 5 8

TRANSISTOR BATTERIES

55 J 156	VS148*	1.25	.85	2.7 4.2	21/32×5/16" 21/32×1 ³¹ /32"	3/4 1/8	H132R H133	E132 E133			TR132R TR133	1	1304M
55 J 522 55 J 157 55 J 158	VS149* VS150*	1.50	1.00	1.4	5/8 x ⁷ /16"	1/8	HG604	E640	* * * * * * * * * * * * * * * * * * * *		RM640	1	130414
55 J 157 55 J 158	VS163*	1.60	1.02	4.2	21/2×121/4"	3/4	H163	E163		-, -, - 10	TR163	9	11.000000000000000000000000000000000000
55 J 159	VS164*	2.00	1.15	5.6	21/ ₃₂ ×121/ ₆₄ " 21/ ₃₂ ×149/ ₆₄ "	1 /4	H164	E164			TR164	10	
	VS165*	2.45	1.50	7	43/64×27/32"	1	H165	E165			TR165R		
55 J 162 55 J 546	VS300A	.89	.62	Ó	1x115/16"	1/8	P6M	226	P91	2.226	M1600		1600
55 J 754	VS301	2.50	1.76	3, 6, 9	8x213/16x19/16"	11/4	D6P1	2506			M1601	1	1601
55 J 694		1.50	1.05	9, 131/2	111/32×11/32×211/16"	1/4	XX9	239			M1900		1900
55 J 695	VS305	1.85	1.30	9	113/32×111/32×23/4"	1/4	2N6	246	P178		M1602		1602
55 J 696	VS306	1.80	1.26	9 .	29/16x21/32x35/32"	1	D6	276	P88	Z276	M1603		2LP-5LP
55 J 696 55 J 697	VS309A*	1.95	1.15	9.8	9/16×129/32"	1/16	H177	E177			TR177	1	1606
55 J 699	VS312*	1.50	1.02	8.4	11/32x5/8x2"	1/8	H146	E146	P146	Fee	TR146		1604
55 J 700	VS313*	.75	.51	1.4	9/16X131/32"	1/16	930	E9		.Z9	ZM9	- 1	والمراجعية فالمالو فالأثراء
55 J 780	VS321	2.75	1.93	41/2	113/16x13/4x811/32"	3		2731					
55 J 554	VS322	1.50	1.05	9	113/16×113/16×27/16"	2.9	M6	266	P1605		M1605		1605
55 J 523	VS323	.69	.48	9	113/32×11/16×129/32"	1/4	2U6 :	216	P1604		M1604	- 1	1604
55 J 163	VS324	1.70	1.19	41/2	113/32×111/32×23/4"	2.9	2Z3	243			M1610		
55 J 166		1.00	.71	6	113/32x3/4x411/16"	2		2713				100	
55 J 779	VS326	1.50	1.05	9	113/32x3/4x411/16"	1/4		2709					
55 J 781	VS327	.75	.53	9	3/4×2"	1/8	L6	206		A straight of a se	M1611	a 7	1611M
55 J 781 55 J 782	VS328*	1.25	.85	8.4	11/ ₃₂ x2"	1/8	H126	E126	1. 1. 6		TR126	5 10 1	1611M
55 J 783	VS329	1.50	1.05	12	1 x 27/16"	1/8		228	54.55				1810M
55 J 757	VS334	.25	6	1 1/2	9/16×1 ³¹ /32" 11/32×1 ¹⁵ /16"	/8	930	1015 635	P15R P903	Z8	M15R M14R		15 14
55 J 758	VS335	.25	.16										
55 J 547	VS336	.25	.16	11/2	111/32x213/32"	1/4	230	A-100	P920	Z4NL	M13R		13
55 J 738	VS400*	2.65	1.80	4.2	1½2×13½2″	1/4	H233	E233	P696	المعم وأوالمراب والما	TR233	: 1	R401
55 J 167	VS401*	.50	.34	1.4	15/ ₃₂ ×1 1/8" 15/ ₃₂ ×1 1/8"	1/2 OZ.	HG401	E401	P9100	ZM9100	RM401 MN9100	4.0	K401
55 J 784	VS1073	.35	.24	11/2	21/ ₃₂ ×1 31/ ₃₂ "	1 oz.	ALL-IN	E90 333	P1306		MN1306 ····		
55 J 785	VS1149						A.T.O.			* * * * * * * * *			
55 J 786		.50	.33	1 1/2	9/16×131/32"	1 oz.	AL9	E91	P9		MN1500		
55 J 787	VS1335	.75	1.51	1 1/2	11/ ₃₂ x2"	2 oz.	AL1	P E93			MN1400		

INDUSTRIAL AND SPECIAL-PURPOSE BATTERIES

55 J 788 55 J 733 55 J 734 55 J 755 55 J 739	VS029 VS040C	1.25 1.25 2.35 1.19 1.19	.84 .88 1.65 .79	1 ½ 4 ½ 7 ½ 6	25/8 x65/8" 215/32x7/8 x31/4" 329/32x7/8 x31/8" 25/8 x25/8 x41/3/32" 25/8 x25/8 x41/4"	1 1/2 1/2 1 1/2 1 1/4 1 3/4	6 5360 5540 F4H F4BP	781 773 509 510S	P5B P4F	M905 M714 M713 M908 M915	 6 Ign. S 714 713 941 941 SC
55 J 789 55 J 790 55 J 791 55 J 792 55 J 793	VS106 VS144* VS145* VS147*	1.25 1.10 .30 .45 2.75	.84 .75 .20 .30	1½ 1.35 1.35 1.4 6	211/16x211/16x43/16" 5/8x131/32" 7/16x1/8" 5/8x7/32" 511/32x227/32x415/16"	1 1/4 2 oz. 1/3 oz. 1/3 oz. 3	4FH HG12 HG400R HG630 TW1	735 E12 E400 E630 731	P630	M900 RM12R RM400R RM630 M918	900

SONOTONE RECHARGEABLE BATTERY





9-VOLT TRANSISTOR BATTERY

- Big Savings! Stock Up Now
- Fits Most Portable Transistor Radios-American and Japanese Makes

Only

9V

Priced so low you can replace your weak or dead batteries at real savings! Replaces Burgess 2U6, RCA VS323, Eveready 216, Zenith Z216, Mallory M1604, NEDA and R-O-V 1604, Ray-O-Vac 1604, Marathon 1604, Western Auto 3B6469, General 179, Ward 123, Sears 6417, and many others. Size, 17/6x3/6xx1". From Japan. Wt., 2 oz. 55 J 119... EACH, ONLY .21

Burgess Batteries_







BATTERIES FOR ALL APPLICATIONS

- Includes Most Up-to-Date TypesAlways a Fresh Supply at Allied

Most portable batteries are listed below. We can supply additional replacements if make and models to be replaced are known.



MERCURY BATTERIES FOR RADIOS, HEARING AIDS, INDUSTRIAL USES

Stock	Mfr's	List	NET	1 37-34-	Size	Wt	1 ~		Repla	ices		,
No.	Туре	Price	EACH	Volts	Size	Lbs.	Eveready	Mallory	RCA	Philco		Ray-O-Vac
55 J 365 55 J 366 55 J 367 55 J 525 55 J 368	Hg-1R Hg-3R Hg-4R Hg-9 Hg-12R	\$0.65 .80 1.05 .75 1.25	.44 .54 .69 .51	1.35 1.35 1.35 1.4 1.35	² / ₃₂ x ⁵ / ₈ " dia. ² / ₃₂ x1" dia. ² / ₃₂ x1 ¹ ³ / ₄ " dia. 1 ³ / ₃₂ x ¹ / ₃₂ " dia. 2x ⁵ / ₈ " dia.	1/8 1/8 1/8 1/8 1/8	E1 E3 E4 E9 E12	RM-1R RM-3R RM-4R ZM-9 RM-12R	VS143 VS313 VS144	P9	Z 9	15M
55 J 369 55 J 763 55 J 370 55 J 529 55 J 762	Hg-42R H126 H133 H146 H162R	2.75 1.25 1.50 1.50 1.30	1.85 .85 1.00 1.02 .87	1.35 8.4 4.2 8.4 2.7	23/8×113/6" dia. 163/4×41/64" dia. 2×21/2" dia. 1×19/2×115/6" 57/64×43/64" dia.	3/8 1/8 1/8 1/8 1/2	E42 E126 E133 E146 E162	RM-42R TR-126 TR-133 TR-146 TR-162R	VS327 VS149 VS312	P146	Z146	1304M 1604M
55 J 530 55 J 531 55 J 532 55 J 533 55 J 115	H163 H164 H165 H177 H233	1.50 1.75 2.25 1.75 2.65	1.02 1.15 1.50 1.15 1.80	4.2 5.6 7 9.8 4.2	15/6x21/32" dia. 13/4x21/32" dia. 213/64x21/32" dia. 129/32x35/64" dia. 131/32x11/64" dia.	1/8 1/8 1/8 1/8 1/4	E163 E164 E165 E177 E233	TR-163 TR-164 TR-165 TR-177 TR-233	VS163 VS164 VS165 VS309A VS400	P696		1606
55 J 534 55 J 764 55 J 535 55 J 536 55 J 765	Hg-312 Hg-400 Hg-400R Hg-401 Hg-401R	.35 .26 .35 .50 .55	.24 .19 .24 .34	1.4 1.4 1.35 1.4 1.35	%4x ⁵ / ₆ " dia. %4x ² % ₄ " dia. %4x ² % ₄ " dia. 1 ½x ² % ₄ " dia. 1 ½x ² % ₄ " dia.	1/8	E400 E401	RM-312 RM-400 RM-400R RM-401 RM-401R	VS145 VS401	P841A	Z979	R401
55 J 537 55 J 524 55 J 539 55 J 540 55 J 768 55 J 541	Hg-450R Hg-502R Hg-520 Hg-601R Hg-625 Hg-625R	.50 .96 .25 1.00 .45 .50	.34 .62 .16 .65 .30	1.35 1.35 1.4 1.35 1.4 1.35	9/6x ² 9%4" dia. 1 ³ 1/ ₂ x ¹ 7/ ₃ 2" dia. 9/ ₃ 2x 1/2" dia. 1 9/ ₄ x ⁵ / ₆ " dia. 1/4x ⁵ / ₆ " dia. 1/4x ⁵ / ₆ " dia.	1/8 1/8 1/8 1/8 1/8	E502	RM-450R RM-502R RM-520 RM-601R RM-625 RM-625R				
55 J 542 55 J 767 55 J 543 55 J 766 55 J 544 55 J 538	Hg-630 Hg-630R Hg-640 Hg-640R Hg-675 303145	.45 .50 .45 .50 .40 9.10	.30 .34 .30 .34 .26 6.33	1.4 1.35 1.4 1.35 1.4 8.4	/4x5/6" dia. /4x5/6" dia. //6x5/6" dia. //6x5/6" dia. 1364x29/6" dia. 1364x29/6" dia. 21/6x13/6x43/6"	1/8 1/8 1/8 1/8 1/8 5/8	E630 E640 E675	RM-630 RM-630R RM-640 RM-640R RM-675		P640		

PORTABLE BATTERIES FOR TRANSISTOR RADIOS

55 J 661 2 55 J 650 2 55 J 106 2 55 J 340 7	2MN6 2N6 2U6 2Z3 7	.98 1.85 .69 1.59 .15 .25	.65 1.30 .48 1.11 .10	9 9 4½ 1½ 1½	1x ³ % ₄ x1 ⁷ / ₈ " dia. 2 ³ / ₄ x1 ³ / ₈ x1 ³ / ₈ " 1 ⁷ / ₈ x ³ / ₄ x1" 1 ³ / ₈ x1 ³ / ₈ x2 ³ / ₄ " 1 ⁹ / ₄ x1 ³ / ₂ " dia. 1 ¹ 5/ ₆ x ⁶ 3/ ₄ " dia.	1/8 1/4 1/4 3/8 1/8	216 246 216 243 912 635	M-1602 M-1604 M-1610 M-24F M-14R	VS323 VS305 VS312 VS324 VS074 VS335	P178 K P903	Z912 Z7	1602 1604 1610 400 14
55 J 101 9 55 J 666 A 55 J 670	230 930 A4 C6X D5	.25 .25 1.00 1.60 1.50	.16 .16 .69 1.10	1½ 1½ 6 9 7½	225/64x121/64" dia. 131/32x35/64" dia. 211/32x19/32x19/32" 25/6x11/32x61/6" 29/6x2x223/32"	1/4 1/8 1/4 3/4 7/8	A100 1015E 2356 707	M-13R M-15R M-26	VS336 VS034 VS315	P920 P15	Z2NL Z8 Z707	13 15 26
55 J 667 II 55 J 103 II 55 J 174 II	D6 D6PI D6S L6 M6	1.80 2.50 1.95 .75 1.50	1.26 1.76 1.36 .53 1.05	1 3, 6, 9 9 9	35/32×2×29/6" 727/32×17/6×219/32" 21/4×11/4×729/32" 31/32×47/64" dia. 113/6×113/16×27/6"	1 1½ 1½ 1½ 1/8	276 2506 2761 206 266	M-1603 M-1601 M-1608 M-1605	VS306 VS301 VS337 VS322	P88	Z276	1603 1601 1611 M
55 J 093 F 55 J 770 F 55 J 657	NE P6 PM6 XX9 Y6	.125 .89 1.19 1.50 1.20	.08 .62 .80 1.05	1½ 9 9 9, 13½ 9	111/64x7/16" dia. 115/16x1" dia. 115/16x1" dia. 115/16x1" dia. 19/32x29/32x217/16" 19/32x19/32x129/32"	1/4 1/4 1/4 1/4 1/8	226 226 239 E177	M-1900	VS300 VS300 VS304 VS309A	P91	Z266	716 1600 1900 1606

PORTABLE "A" BATTERIES

55 J 017 55 J 051 55 J 049 55 J 644 55 J 041	1 2D 2R 21R B5	1.20 1.20 .20 .45 2.25	.13 .84 .13 .32 1.58	1 1/2 1 1/2 1 1/2 1 1/2 7 1/2	115/6x63/64" dia. 29/6x19/32x231/32" 225/4x121/64" dia. 41/8x121/64" dia. 329/32x7/8x227/32"	1/4 3/4 1/2 1/2	935 720 950 964 713	M-14F M-18 M-13R M-20 M-8	VS035A VS069 VS036 VS236 VS129	P903 P920 P77	Z7 Z2NL Z5	1LP 18 2LP 20 8
55 J 044 55 J 052 55 J 592 55 J 053 55 J 593	C5 D3 F3 T5 Z4	1.50 1.35 1.35 1.90 1.00	1.05 .95 .95 1.32	7½ 4½ 4½ 1½ 1½	27/32×115/16×31/32" 37/8×15/16×215/16" 4×17/16×41/8" 217/32×219/32×329/32" 13/16×15/16×27/32"	3/4 3/4 1 1/4 1 1/2	717 726 736 W360 724	M-9 M-19 M-3 M-2	VS065 VS072 VS067 VS068	P31	Z750 Z450 Z736	9 19 A3 A10 A2

PORTABLE "B" BATTERIES

55 J 570 55 J 571 55 J 596 55 J 576 55 J 597	A30 B30 K45 M30 V60	3.55 4.70 3.45 3.85 4.50	2.49 3.29 2.42 2.70 3.15	45 45 671/2 45 90	3%6×2 ¼×45/6" 4½6×2¹7/32×55/6" 2¹½6×15/6×2 ¼" 5½×1 ¾×39/6" 3¹½6×19/32×3¹9/32"	1 ³ / ₄ 2 ¹ / ₄ 1/ ₂ 2 1	W359 484 457 482 490	M-206 M-207 M-203 M-202 M-204	VS014 VS012 VS082 VS013 VS090	P210 P305 P45 P132	Z530 Z457 Z783 Z490	206 207 M203 M202 M204
55 J 669 555 J 645 55 J 651 55 J 649 55 J 668 55 J 772	N60X P45 P60 U30 UX45 V45	4.95 3.10 3.95 2.50 2.95 3.50	3.47 2.17 2.77 1.75 2.07 2.45	90 67 1/2 90 45 67 1/2 67 1/2	17 ₈ x11 ¹ / ₃₂ x7 ¹ / ₈ " 12 ⁹ / ₃₂ x1 x5 ⁹ / ₃₂ " 12 ⁹ / ₃₂ x1 x7 ¹³ / ₃₂ " 13 ³ / ₃₂ x1 ⁹ / ₃₂ x3 ¹⁷ / ₃₂ " 17 ³ / ₃₂ x3 ¹ / ₃₂ x3 ³ / ₃₂ " 23 ⁴ / ₄ x11 ¹ / ₃₂ x3 ⁴ 364"	1 1/8 3/4 1 1/4 1/2	495 477 479 415 416 468	M216 M211P M-214 M-213 M-217	VS316 VS218 VS219 VS086 VS318	P190 P149 P176 P150 P217	Z495 Z477 Z90 Z415	211P 214 213
55 J 573 555 J 575 55 J 574 55 J 586 55 J 581 55 J 572	W30PI XX30 XX45 XX50 XX69 Z30	3.33 2.75 3.50 4.50 6.57 3.95	2.33 1.92 2.45 3.15 4.60 2.76	45 45 671/2 75 1031/2 45	23\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3/4 3/4 3/4 11/4 11/4 11/2	733 455 467 437 W361 738	M-201 M-200 M-212 M-205	VS055 VS016 VS217 VS015	P105 P67 P144	Z455 Z67 Z437	N30P 201 200 212 69N 205

Burgess Batteries



BATTERIES FOR ALL PURPOSES

If you do not find the battery you need in this listing, write us. Give the make and type of both battery and set. We'll supply an equivalent battery.



"FEATHERWEIGHT" "B" BATTERIES—INCLUDING HEARING AID TYPES

						Shpg.			Replaces					
Stock No.	Mfr's Type	List Price	NET EACH	Volts	Size	Wt., Oz.	RCA	Zenith	Sono- tone	Ever- eady	Acous- ticon	Ray-O- Vac		
55 J 054 55 J 055 55 J 060 55 J 104 55 J 105	XX15 XX22 XX30PI K-10 K-15	\$1.95 2.45 3.00 1.65 1.75	1.37 1.72 2.10 1.16 1.23	22½ 33 45 15 22½	11½2x15/6x37/8" 21½2x3½32x3½8" 21½2x3½32x4½2" 1½x7/8x117/32" 1¼x7/8x21/32"	4 6 12 2 2		Z 30	230	425P 433P 455P 417 420	22EW 33EW 45EW	PN15 PN22 PN30F		
55 J 061 55 J 062 55 J 064 55 J 066	K-20 U10 U15 U20	2.15 1.15 1.50 1.75	1.51 .81 1.05 1.23	30 15 22½ 30	2 ¹ 3/ ₃₂ x ¹ 5/ ₁₆ x1 ¹ / ₄ " 1 x ³ % ₄ x1 ⁷ / ₆ " 1 x ³ % ₄ x1 ³ / ₃₂ " 1 x ³ % ₄ x2 ¹ 7/ ₃₂ "	3 2 2 2	VS083 VS084 VS085	Z11M Z12M Z13M	211 212 213	430 411 412 413	711G 712H 713G	208 215 A210		
55 J 069 55 J 075 55 J 068 55 J 077	Y10 Y15 Y20 Y20S	1.15 1.50 1.85 1.85	.81 1.05 1.30	15 22½ 30 30	19/ ₃₂ x19/ ₃₂ x1 ² 3/ ₆₄ " 19/ ₃₂ x19/ ₃₂ x1 ³ 1/ ₃₂ " 13/ ₁₆ x1 ⁹ / ₃₂ x1 ¹³ / ₃₂ " 19/ ₃₂ x1 ⁹ / ₃₂ x2 ⁹ / ₁₆ "	3 3 3 3		Z5M Z6M	Z5 Z6 Z7	504 505 506 507	715G 722G	220 221		

TYPE 2U6-FOR TRANSISTOR PORTABLE RADIOS

Fits Most Japanese-Import Models

Nine-volt transistor portable battery that is physically and electrically equivalent to the following American-made batteries: Eveready 216; RCA VS-323; NEDA 1604; Ray-O-Vac 1604; Mallory M1604; General 179; Western Auto 3B6469; Marathon: 1604; Montgomery Ward 123; Sears 6417; Zenith 216. Also fits most Japanese imports. Carefully manufactured to assure peak performance. 11/6x3/4x1". Shpg. wt., 202. 48



STANDARD DRY BATTERIES

Suitable for all radio, laboratory and hobby requirements. Ideal for running model boats, planes, cars, transmitters, etc. Burgess quality construction and insulators allow use of very active ingredients, providing maximum useful life. All have exceptionally large power reserves and highly active depolarizing agents which quickly regenerate power producing capacity when batteries are not being used. Letters following battery type numbers denote terminals: PI—plug-in terminals; terminals. All others have screw terminals.



SC-spring-clip

"A" BATTERIES

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt., Lbs.	NET EACH
55 J 590 55 J 001 55 J 010 55 J 033 55 J 002	2BBP 2F 2F2H 2F2BP 2F4	1½ 1½ 3 3 6	119/32×27/32×211/16" 219/32×13/8×41/4" 25/8×25/8×41/16" 53/16×15/16×45/32" 4×213/16×57/16"	1/4 3/4 1 1/2 1 1/2 2 1/2	1.16 .77 1.08 2.23 2.73
55 J 030 55 J 585 55 J 048 55 J 003 55 J 034	2FBP 2Z2P1 37 4F 422	1½ 3 1½ 1½ 3 2	22 ¹ / ₃₂ ×1 ³ / ₈ ×4 ¹ / ₃₂ " 1 ⁵ / ₃₂ ×1 ⁵ / ₃₂ ×2 ¹ / ₃₂ " 6 ¹ / ₈ ×1 ⁵ / ₆ " dia. 2 ⁵ / ₈ ×2 ⁵ / ₈ ×4 ³ / ₃₂ " 2 ⁵ / ₁₆ ×2 ³ / ₃₂ ×1 ¹ / ₃₂ "	1 1/4 1/4 1 1/2 1/4	.79 .68 .65 1.15
55 J 026 55 J 012 55 J 045 55 J 091 55 J 595	432 44 5R 532 6F	4½ 1½ 1½ 1½ 4½ 1½	2½x1³⅓₂x²⅓₂″ 45½x1²¾z″ dia. 2¹⁵⁄64x⁴¾⁄a″ dia. 2¹⁵⁄32x¹³⁄6x2²¾z″ 4¾32x2³⁄4x⁴¼e″	1/4 3/4 3/4 2/4	1.75 .24 .68 1.93
55 J 004 55 J 046 55 J 047 55 J 582 55 J 011	8F 8R 9R B2BP F2BP	1 ½ 1 ½ 1 ½ 1 ½ 3	329/ ₃₂ x223/ ₃₂ x5 1/ ₂ " 315/ ₆ x13/ ₃₂ " dia. 163/ ₄ 4x35/ ₄ " dia. 15/ ₈ x13/ ₁₆ x211/ ₁₆ " 221/ ₃₂ x13/ ₈ x41/ ₃₂ "	3 1/4 1/4 1	2.42 .60 .12 .94 .79
55 J 009 55 J 007 55 J 008	F4BP F4PI G3	6 6 41/2	25/8×25/8×4" 221/32×221/32×41/8" 41/6×17/8×411/16"	1½ 1½ 1¼ 1¼	.79 1.16 1.05

"B" BATTERIES

55 J 556 55 J 557 55 J 555 55 J 558 55 J 560	10308PI 10308SC 21308SC 2308SC 4156	45 45 45 45 221/2	8½2x4½2x7¾6" 8½2x4½2x7¾6" 8½8x4½2x7¾6" 8¾8x4½2x7¾2" 8¾2x2¾2x7¼" 31⅓2x2½8x2²¾2x7¼"	11½ 11¾ 13 13 8	4.84 4.84 5.36 3.84 1.61
55 J 561	5156PI	22½	47/64x23/8x255/64"	1 ³ / ₄	3.12
55 J 562	5156SC	22½	41/8x21/2x23/4"	1 ³ / ₄	3.12
55 J 559	5308	45	41/6x29/6x51/8"	3	3.05
55 J 594	U-200	300	23/4x29/32x37/8"	1	8.37
55 J 107	D30	45	51/6x21/32x75/6"	4 ¹ / ₂	3.47
55 J 109	Z30T	45	3x25/6x41/8"	1 ½	2.62
55 J 567	W30BPX	45	3x11/4x325/32"	3/4	2.49
55 J 569	Z30NX	45	17/8x31/32x419/32"	1 ½	2.69
55 J 598	Z60BP	90	33/4x211/32x515/16"	2 3/4	8.90

"C" BATTERIES

55 J 583 55 J 563 55 J 565 55 J 564	2370 2370PI 5360 5540	4 ½ 4 ½ 4 ½ 7 ½	315/16×13/8×27/8" 41/64×127/64×233/64" 213/16×27/32×221/32" 4×7/8×23/4"	1/4	1.33 1.58 .88 1.65
55 J 59 I 55 J 566 55 J 568	A9BP B5P W5BP	13½ 7½ 7½ 7½	2 ³ / ₃₂ ×2 ³ / ₃₂ ×2 ¹³ / ₃₂ " 4 ⁵ / ₃₂ ×1 ¹³ / ₃₂ ×2 ² / ₃₂ " 2 ³ / ₃₂ ×2 ³ / ₃₂ ×1 ³ / ₄ "	3/4	3.76 2.63 1.47

FLASHLIGHT BATTERIES

Burgess batteries have chrome protected cells for guaranteed freshness. Leak-proof construction guards your flashlight against corrosion. Types 2 and 210 cells sealed in plastic and steel. Type 1 (size C)—for baby tubular flashlights; Types 2 and 210 (size D)—for standard flashlights; Type Z (size AA)—for standard penlights; Type 7 (size AAA)—for slim penlights; Type 7 (size AAAA)—for slim penlights; Type N—for miniature and novelty lights. *Heavy-duty type—last up to 2½ times longer than No. 2 cells. Av. wt., 5 oz.







			1	1	Replaces		
Stock No.	Mfr's Type	Size (Lx Dia.)	List	NET EACH	Ever- eady	Ray- O-Vac	
55 J 017 55 J 005 55 J 340	1 2 7	115/16×63/64" 23/8×121/64" 13/4×13/32"	.20 .20 .15	.13	935 950 912	1LP 2LP 400	
55 J 501 55 J 076 55 J 020	210* N	23/8×121/64" 111/64×7/16" 131/22×35/64"	.25	.16	1050 904 915	3LP 716 7R	

PORTABLE "AB" PACKS

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt., Lbs.	NET EA.	Replaces Ray-O-Vac
55 J 654 555 J 578 555 J 589 555 J 579 555 J 653 555 J 646	6TA60 F6A60 F6A60P G6B60 G6M60 T5Z50P T6Z60	9, 90 7½, 9, 90 7½, 75 7½, 75	75/8×21/8×33/4" 93/42×21/4×44/6" 915/6×22/42×44/6" 916×22/42×44/6" 97/6×23/4×41/32" 132/42×21/46×42/32" 103/6×31/8×41/32" 81/2×31/42×23/6" 23/6×815/6×31/46" 23/6×815/6×31/46"	4 41/2 61/2 7 61/2 7 6 31/2 41/2 41/2	4.38 5.48 5.43 5.57 5.78 6.62 4.83 4.87 5.22	401 406 400 402 431 405

IGNITION, TELEPHONE AND ALARM BATTERIES

Designed for emergency illumination, portable lighting, alarm systems. Used by railroads, police, fire departments and emergency crews. Dependable, leakproof metal container. Types 4F2H and 4FH recommended for general ignition, telephone and lantern service, etc.

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt., Lbs.	NET EACH
55 J 013 55 J 015 55 J 014 55 J 584 55 J 021	4FH 4F2H 4F4H 4F5H 4F6H	1½ 3 6 7½ 9	25/8×25/8×4" 329/32×211/6×513/32" 85/6×213/6×513/6" 73/6×331/32×513/6" 81/2×331/32×513/6"	1½ 2¾ 6¼ 7½ 9	.84 1.45 3.34 4.86 5.53
55 J 641 55 J 642 55 J 647	6-Ign. 6-Tel. 6-Ind.	11/2 11/2 11/2	65/8 x 2 1/2" dia. 65/8 x 2 1/2" dia. 65/8 x 2 1/2" dia. 101/4 x 2 3/4 x 713/2"	2 1/2 2 1/2 8 1/2	.84 .84 .90

LANTERN BATTERIES

For use with railroad-type lanterns. Type F4H has positive coilspring contacts—a favorite of railroadmen. Type TW1S for underwater use.

Stock No.	Mfr's Type	Volts	Size	Wt., Lbs.	PEACH
55 J 015 55 J 016	4F2H F4H	3 6	329/ ₃₂ x2 ¹¹ / ₁₆ x5 ¹³ / ₁₆ " 2 ⁵ / ₈ x2 ⁵ / ₈ x4 ³ / ₈ "	23/4	1.45
55 J 009	F4BP F4SC	6	25/8×25/8×4" 25/8×25/8×41/2"	1 1/2	.79
55 J 658	TW1 TW1S	6	5 ³ / ₈ ×2 ⁷ / ₈ ×4 ¹⁵ / ₁₆ " 5 ³ / ₈ ×2 ⁷ / ₈ ×4 ¹⁵ / ₁₆ "	31/4	1.83
55 1 500	TW2	12	53/9×27/9×415/16"	31/4	1.83

SPECIAL-PURPOSE TAPE RECORDER BATTERIES

Extremely compact, highly dependable batteries. Designed/specifically for use in pocket tape recorders. *Flat contact. †Snap type.

Stock No.	Туре	Volts	Size	Lbs.	NET
55 J 110	2X62X†	101/2	2½x1 ¹⁵ ½x2 ¹¹ ½"	1/2	1.82
55 J 111	2X7†		2½x1 ¹⁵ ½x2 ¹¹ ½"	1/2	1.82
55 J 112	3XX7*		1%x1 ¹ ½x3 ⁵ %"	1/2	2.00

Mallory and Burgess Batteries.

MALLORY MERCURY TRANSISTOR RADIO BATTERIES





Stock	Mallory	NET		Size (Dia, x Ht.,			Replaces		
No.	Туре	EACH	Volts	or HWD)	Eveready	Burgess	RCA	Philco	Zenith
55 J 671 55 J 685	ZM-9 DM-9N	.51	1.4	1/2 x 1 3 1/32" 1/2 x 1 3 1/22"	E9 E9N	HG9	VS-313	P9	Z8
55 J 509 55 J 688	TR-133 TR-146	1.00	4.2	21/ ₃₂ x2" 1x ¹ 9/ ₃₂ x1 ¹⁵ / ₁₆ "	E133 E146	H133 H146	VS-149 VS-312	P133 P146	Z146
55 J 505 55 J 506	TR-164 TR-175	1.02	5.6 7.0	21/ ₃₂ ×1 ²⁵ / ₃₂ " 31/ ₆₄ ×1 ³ / ₃₂ "	E164	H164	VS-164		
55 J 508 55 J 701 55 J 502	TR-177 TR-233 RM-42	1.15 1.80 1.70	9.8 4.2 1.4	1/2×1 3/4" 1×2" 113/64×23/8"	E177 E233 E42	H177 H233	VS-309A VS-400	P696	
55 J 503 55 J 503	RM-401 RM-630 RM-640	.34	1.4	15/32×11/8" 5/8×1/4" 5/6×7/46"	E401 E630 E640	HQ401 HQ630 HQ640	VS-401 VS-147 VS-150	P630 P640	

MALLORY MERCURY BATTERIES

Extremely long shelf life, uniform discharge voltage and extended operating life make these units ideal for applications where high reliability is required. Suffix T of RM batteries indicates ½" tab on negative terminal; T2 indicates two tabs. TR batteries are transistor powerpaks with self-venting construction designed to relieve excess gas which may form. Powerpaks are widely used by designers and manufacturers of all types of electronic equipment. Ay shore with 30 c.

	uipment. Av. shpg.	. Wt., 3 02		1.2
Stock	Mfr's	Volts	Size (Dia.xHt.,	NET
No.	Type		or HWD)	EACH
55 J 510 55 J 703 55 J 371 55 J 372 55 J 704 55 J 705	RM1 RM1R RM1RT RM1RT2 RM3R RM4R	1.4 1.35 1.35 1.35 1.35 1.35	5/8 x21/32" 5/8 x21/32" 5/8 x21/32" 5/8 x21/32" 1 x21/32" 1 1/5 x21/32"	.38 .44 .49 .53 .54
55 J 679 55 J 373 55 J 511 55 J 706 55 J 374 55 J 512	RM4RT RM4Z RM12 RM12R RM12RT RM12RT	1.35 1.4 1.4 1.35 1.35 1.35	13/6x1//6" 3/6x1/2" 5/8x161/64" 5/8x61/64" 5/8x61/64" 161/64x5/8"	.74 .58 .75 .82 .87
55 J 687	RM42R	1.35	1 ¹ 3/64×2 ³ /8"	1.85
55 J 680	RM42RT	1.35	1 ³ /6×2 ³ /8"	1.90
55 J 375	RM42RT2	1.35	1 ³ /6×2 ³ /8"	1.95
55 J 681	RM400R	1.35	1 ⁵ /32×1/8"	.24
55 J 513	RM411	14.0	1×1 ⁹ /32×11 ³ /32"	2.00
55 J 514	RM411	22.4	1×1 ⁹ /32×11 ³ /6"	2.55
55 J 515 55 J 516 55 J 682 55 J 707 55 J 683 55 J 684	RM413 RM415 RM450R RM502R RM601R RM625R	28.0 42.0 1.35 1.35 1.35	1x ¹ 9/ ₃₂ x2 ¹ / ₂ " 1 ¹ / ₁₆ x9/ ₁₆ x3 ¹ / ₂ " 1 ⁵ / ₃₂ x / ₂ " 1 ⁵ / ₂ x2" 2 ⁷ / ₆ x1 ⁵ / ₃₂ " 3 ⁹ / ₆₄ x ¹ 5/ ₆₄ "	3.25 5.10 .34 .62 .65
55 J 708	RM625RT	1.35	3964×1564"	.39
55 J 376	RM625RT2	1.35	3964×1564"	.44
55 J 517	RM640RT2	1.35	7/6×58"	.40
55 J 548	RM675	1.4	2964×1364"	.26
55 J 690	TR-113R	4.05	21/32×27/32"	I.29
55 J 691	TR-114R	5.4	21/32×17"	I.50
55 J 518	TR-114RT2	5.4	11/6x3/16"	1.60
55 J 672	TR-115R	6.75	21/32x115/32"	1.70
55 J 673	TR-132R	2.7	21/32x15/16"	.92
55 J 675	TR-132R	5.4	21/32x25/8"	1.45
55 J 676	TR-135R	6.75	21/32x31/4"	1.85
55 J 677	TR-136R	8.1	21/32x329/32"	2.18
55 J 689 55 J 678 55 J 693 55 J 519 55 J 520	TR-145 TR-152R TR-153R TR-162R TR-163 TR-165	7 2.7 4.05 2.7 4.2 7.0	2½2x1¾6" ½x17¾2" ½x12¾32" ½x12¾32° ²¾2x2¾26" ²½2x1¼6" ²⅓2x2¾6"	1.55 .78 1.02 .87 1.02 1.50
55 J 359	TR-169°	12.6	21/32x361/64"	3.20
55 J 360	TR-234R	5.6	1x19/32"	2.50
55 J 361	303145	8.4	43/8x13/16x21/8"	6.33

MALLORY GRID BIAS CELL AND CELL CLIPS

Grid Bias Cell Type BC-3. (Not illus.) For biasing first audio amplifier tubes. No by-pass capacitor to ground is needed. Stack units with clips listed below, 1½ volts. Size, 1½6x3%4". Shpg. wt., 2 oz.

55 J 841. List, \$0.60. NET.

Bias Cell Clips. Clips to hold grid bias cells listed above. 11/2" tinned leads. Cells easily inserted or removed. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Capacity	List	EACH
55 J 842	GB-15	2-cell	\$0.40	
55 J 843	GB-16	4-cell	.40	26
55 J 844	GB-17	1-cell	.40	.20





BURGESS WINK-LIGHT BATTERY AND BULB KIT

Type K30P-K. Battery and bulb replacement kit. Includes a 45-volt, K30P battery, designed especially for Wink-Light operation, and a No. 428 bulb. Battery has extra-long shelf-life—metal jacket prevents leakage. Kit is specified by camera manufacturer as replacement for original Wink-Light equipment. 1 lb. 55 J 118. NET.

BURGESS BATTERY ENGINEERING MANUAL



BURGESS NICKEL-CADMIUM BATTERIES

High energy, compact, hermetically sealed nickel-cadmium batteries and cells. Long-lasting, economical power—may be recharged many times. Batteries respond equally well to a trickle charge or a quick charge. Unaffected by idle periods. *Supplied with solder lug terminals. Prismatics have binding posts; others with pressure contacts. †10 hour rate (ma.). Sealed in steel.

BUTTON CELLS

Stock No	. Type	Voits	Size	Oz.	† Discharge Ma	EACH
55 J 377		1.22	29/64×7/32"	2	2	1.16
55 J 378		1.22	39/64×15/64"	2	5	.81
55 J 379		1.22	63/64X9/32"	2	15	.92
55 J 380		1.22	63/64X19/64"	2	15	1.01
55 J 381	CD4	1.22	63/64X11/32"	2	22	.95
55 J 382	CD4L*	1.22	63/64X3/8"	2	22	1.21
55 J 383	CD5	1.22	145/64×19/64"	2	45	1.47
55 J 384	CD5L*	1.22	17/10 x21/64"	2	45	1.60
55 J 497		1.25	63/64×15/64"	2	10	.90
55 J 498	CD8L*	1.25	63/64X1/4"	2	10	.99

CYLINDRICAL CELLS

55 J 385 55 J 386 55 J 387 55 J 388 55 J 499	CD6L* CD7 CD7L*	1.20 1.20 1.20 1.20 1.20 1.25	%6x2%2" 11%4x2 ²⁵ / ₃₂ " 35/ ₆ 4x3 ¹¹ / ₁₆ "		2 7 7 3	45 45 250 250 90	1.93 2.20 3.50 3.75 3.01
55 J 837	CD10L* CD11 CD11L*	1.25 1.25 1.25 1.25 1.25 1.25	11964x227/64" 11964x249/64" 11964x227/64" 11964x2249/64" 7/8x143/64"	1	2 2 2 2 2 2	400 400 300 300 120	6.12 6.40 4.53 4.80 2.70

NICKEL CADMIUM BATTERIES

55 J 389	CD21	6.1	11/16×117/32"	12	15	5.74
55 J 390	CD22	6.1	11/16x131/32"	12	22	5.90
55 J 391	CD23	6.1	151/64×123/32"	16	45	10.15
55 J 392	CD24	9.7	11/16x221/32"	12	15	9.39
55 J 393	CD25	9.7	11/16×37/64"	12	22	9.58
55 J 394	CD26	9.7	151/64×237/64"	16	45	15.85
55 J 395	CD27	12.2	11/16×259/64"	12	.15	11.56
55 J 396	CD28	12.2	11/16×319/32"	12	: 22	11.95
55 J 397	CD29	12.2	151/64×37/64"	20	45	19.50
55 J 398	CD30	6.0	313/16x1 1/2x1 1/2"	16	90	19.96
55 J 399	CD31	6.0	35/8×117/12×313/16"	36	150	23.79

NICKEL CADMIUM HIGH CURRENT PRISMATICS

55	J	343	CD100	1.25	323/64×3/4×123/64"	8	150	6.44
			CD101	1.25	213/32×123/64×123/64"	8	200	6.38
55			CD102	1.25	323/64×123/64×123/64"	12	350	7.25
55			CD103S	1.25	41/64×59/64×19/16"	12	400	12.40
			CD104	1.25	31/8×159/64×143/64"	16	450 600	9.89
-	_		CD105		341/64×159/64×143/64"	16		10.98
					41/64×131/64×19/16"	16	700	14.10
55			CD107	1.25	41/4×115/16×143/64"	20	750	10.42
55			CD108	1.25	42%32X3%6X13%4"	32	1100	13.32
55			CD109 CD110	1.25	42%2x3%6x111/32" 42%2x3%6x121/32"	36 42	1500 1900	16.48
			CDIII	1.25	42%2x3%6x131/32"	52	2300	19.00
رر		200	CDITT	1.40	12-732 VO 716 VI - 735	54	2300	123.24

BURGESS PHOTO-FLASH BATTERIES

Designed for high initial current discharge

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt.	NET	Replaces Eveready
55 J 038 55 J 037 55 J 039 55 J 052	220§ 920§	1 ½ 1 ½ 1 ½ 1 ½ 4 ½	115/16x1" 225/64x111/32" 131/32x35/64" 37/8x15/16x215/16"	4 oz. 6 oz. 4 oz. ³ / ₄ lb.	.16 .16 .13	835 850 815 726
55 J 596 55 J 576 55 J 659 55 J 597	M30 N150	67½ 45 225 90	211/16x15/16x21/4" 39/16x13/4x51/2" 39/16x23/4x43/4" 311/16x19/32x319/32"	1/2 lb. 2 lbs. 2 l/2 lbs. 1 lb.	2.42 2.70 6.13 3.15	457 482 492 490
55 J 062 55 J 656 55 J 066 55 J 594	U160 U20	15 240 30 300	1x ³ % ₄ x1 ⁷ / ₁₆ " 29/ ₁₆ x1 ⁵ / ₁₆ x4 ¹ / ₃₂ " 1x ³ % ₄ x2 ¹⁷ / ₃₂ " .2 ³ / ₄ x2 ⁹ / ₃₂ x3 ⁷ / ₈ "	2 oz. ³ / ₄ lb. 2 oz. 1 lb.	.81 5.56 1.23 8.37	411 491 413 493
55 J 660 55 J 655 55 J 574 55 J 069 55 J 075	XX150 XX45 Y10	510 225 67½ 15 22½	2 ¹⁵ / ₁₆ ×1 ¹⁷ / ₃₂ ×5 ⁷ / ₁₆ " 4 ½ ×2 5½ ×4 ½" 2 ¾ ×1 ½ ×3 ⁴³ / ₆₄ " 1 ½ ×1 ½ ×1 2 3/ ₆₄ " 1 ½ ×1 ½ ×1 2 3/ ₆₄ " 1 ½ ×1 ½ ×1 2 3/ ₆₄ "	1½ lbs. 2½ lbs. 3¼ lb. 3 oz. 3 oz.	11.16 6.96 2.45 .81 1.05	497 489 467 504 505

BURGESS BATTERIES

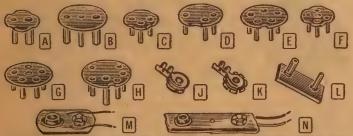
NEW MINIATURE BATTERIES—SOLVE DESIGN PROBLEMS



A2 new types of miniature batteries help solve power supply design problems related to transistorized circuits. Unique Wafer Cell construction provides as much as 30% in creased capacity and improved shelf characteristics. Wafer Cell features a "sandwich" of artificial manganese dioxide between discs of flat zinc and carbon electrodes. "Sandwich" is sealed in airtight pliofilm container. New batteries come in 8 practical power ratings ranging from 3 to 13.5 volts. Economical and dependable power sources for transistorized circuits in radios, cameras, test equipment, transceivers, toys and hobby kits. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Volts	Terminal Type	Size (HWD)	List Price	NET
55 J 832 55 J 833 55 J 834 55 J 819 55 J 820	K4 K5 K6 L3 L4	6.0 7.5 9.0 4.5 6.0	Snap Snap Snap Flat Flat	5764x1932x5964" 1164x1932x5964" 116x1932x5964" 1564x34" dia. 138x34" dia.	1.10 1.15 1.20 .65 .80	.77 .81 .84 .45
55 J 821 55 J 822 55 J 823 55 J 824 55 J 835	L5 L7 L8 L9 N3	7.5 10.5 12.0 13.5 4.5	Flat Flat Flat Flat Snap	1 ⁴ 3 ₆₄ x ³ / ₄ " dia. 2 ⁹ 5 ₂ x ³ / ₄ " dia. 2 ³ 7 ₆₄ x ³ / ₄ " dia. 2 ⁷ / ₈ x ³ / ₄ " dia. 1 ¹ / ₆₄ x1 ⁹ / ₃₂ x ⁵ ⁹ / ₄ "	1.10 1.35 1.45 1.55 .90	.77 .95 1.01 1.09 .63
55 J 794 55 J 795 55 J 796 55 J 797 55 J 798	N4 N5 N6 NT2	6.0 7.5 9.0 3.0 4.5	Snap Snap Snap Flat Flat	17/32×19/32×59/64" 113/32×19/32×59/64" 15/8×19/32×59/64" 3/4×19/32×59/64" 11/64×19/32×59/64"	1.00 1.10 1.20 .80 .90	.70 .77 .84 .56
55 J 799 55 J 800 55 J 801 55 J 825 55 J 826	NT5 NT6 PM2	6.0 7.5 9.0 3.0 4.5	Snap Snap Snap Flat Flat	13/64x1%32x5%4" 14%4x1%32x5%4" 2164x19%32x5%4" 4564x1" dia. 6/64x1" dia.	1.00 1.10 1.20 .75 .90	.70 .77 .84 .52 .63
55 J 827 55 J 828 55 J 829 55 J 830 55 J 831	PM4 PM5 PM7 PM8 PM9	6.0 7.5 10.5 12.0 13.5	Snap Snap Snap Snap Snap	1 ¹ 3/ ₂ x1" dia. 1 ² / ₂ x1" dia. 2 ³ / ₆ x1" dia. 2 ⁷ / ₁ 6x1" dia. 2 ¹ / ₁ 6x1" dia.	1.00 1.10 1.30 1.35 1.45	.70 .77 .91 .95
55 J 812 55 J 813 55 J 814 55 J 815 55 J 816	U2 3 U3 4 U4 5 U5 U7	3.0 4.5 6.0 7.5 10.5	Flat Flat Flat Flat Snap	23/32×11/64×39/64" 1×11/64×39/64" 117/64×11/64×39/64" 135/64×11/64×39/64" 25/32×11/64×39/64"	.55 .60 .75 1.00 1.30	.39 .42 .52 .70
55 J 817 55 J 818 55 J 802 55 J 802 55 J 804 55 J 804	U8 U9 V3 V4 V5	12.0 13.5 4.5 6.0 7.5 9.0	Snap Snap Flat Snap Snap Snap	27/6×11/64×39/64" 245/64×11/64×39/64" 13/64×11/62×11/32" 11/56×11/32×11/32" 17/6×11/32×11/32" 15/8×11/32×11/32"	1.40 1.50 .90 1.00 1.10 1.20	.98 1.05 .63 .70 .77
55 J 800 55 J 800 55 J 800 55 J 800 55 J 810	7 Y4 7 Y4 8 Y5 9 Y7	4.5 6.0 7.5 10.5 12.0 13.5	Flat Flat Flat Snap Snap Snap	29/32×19/32*19/32" 113/64×19/32×19/32" 115/32×19/32×19/32" 25/32×19/32×19/32" 213/32×19/32×19/32" 221/32×19/32×19/32"	.60 .75 1.00 1.30 1.40 1.50	.42 .52 .70 .91 .98 1.05

CINCH-JONES PLUGS FOR BATTERIES



Cinch-Jones plugs for "A," "B" and various other batteries. *5 prongs,

			v. shpg. wt., 1 oz. 2 per		
Stock No.	Туре	Fig.	For Burgess Battery	For RCA Battery	PKG.
55 J 178			2F,4F,6F,8F,2D,8R	VS069, VS070, VS141	.08
55 J 180		В	B5.C5.15	VS065	.14
55 J 176	5B1A	C	XX15, XX22, XX30P1	المهجمة وووويها	.10
55 J 310	5B2-1	D	A30, B30, M30, W30P1,	VS013,VS014	.14
			Z30,10308P1		14
55 J 183	5C-2	E*	5156P1		.14
55 J 181	5AB2	F	2TXX40		.12
55 J 177		G	6TA60,4TZ60		.17
55 J 182	5AB7	H	F6A60,G6M60,T6Z60	V S019, V S050,	10
	W 1 0 1	-	TC DE DO36 366	VS057W	.19
55 J 301	5M)	J		VS300A,VS315, VS322,VS016.	.12
FF 1300	ETC	K	XX45,XX30,XX50,	VS055.VS217,	, 1 %
55 J 302	5F)	12	K45,P45,P45M, P60,D6,4D4,N60X,	VS082,VS218,	
			C6X	VS215.VS219,	
			COR	VS306.VS316	.12
CC 1 170	EA2	T	D3.F3.G3	VS067.VS072	.09
55 J 179 55 J 175			2F4.F4P1.XX15.	V 5001, V 5012	.07
22 3 1/2	JAT	1	XX22,XX30P1		.10
55 J 184	5D: -	M	U30,2U6,2N6,UX45	VS086, VS323, VS312,	
22 0 104			000,200,2110,	V\$305	.69
55 J 307	5D1	N	XX50,P45,P45M,	VS218, VS215, VS219	
			P60,N60X,C6X		.67
55 J 308			N60	11004 2 1100 FF 110000	.67
55 J 309	5MFA	IN	XX45,XX30,K45	VS016,VS055,VS082	.67

EVEREADY BATTERIES **ALKALINE ENERGIZER BATTERIES**

Revolutionary alkaline energizer batteries specially designed for high drain, continuous service applications. Deliver higher amperage over a much longer period than do standard flashlight batteries. Also feature longer shelf life and greater recuperative powers than conventional zinc-carbon types. Maintain constant output during periods of discharge. Ideal for use in portable TV sets, flashlights, etc. Sizes: E90—N; E91—AA; E93—C; E94—½D; E95—D.



Stock Nn.	Mfr's Type	Volts	Contacts	Size	Oz. Ea.	Replaces RCA	List Price	NET EACH
55 J 845 55 J 148 55 J 173	E90 E91 E93	1½ 1½ 1½ 1½	Flat Flat Flat	15/ ₃₂ X1 ¹ / ₈ " 9/ ₁₆ X1 ³¹ / ₃₂ " 1 ¹ / ₃₂ X1 ¹⁵ / ₁₆ "	2	V\$1073 V\$1334 V\$1335	.35 .50 .60	.22
55 J 173 55 J 527 55 J 521	E94 E95	1½ 1½ 1½	Flat Flat	11/ ₃₂ X1 ⁷ / ₃₂ " 111/ ₃₂ X2 ¹³ / ₃₂ "	2 41/2	431333	.50 .75	.33
55 J 149 55 J 151	E97S 520	11/2	Screw Screw	111/ ₃₂ x5 ⁷ / ₃₂ " 221/ ₃₂ x4 ² 1/ ₃₂ x5 ¹ 7/ ₃₂ "	9 40		1.10 4.50	2.99

NO. 6 STANDARD IGNITOR BATTERY



CATHODIC ENVELOPE BATTERIES

Economical zinc-carbon cathodic envelope batteries employ unique "sandwich" type construction to provide 50 to 100% more service-life than conventional types. Zinc anode plate is placed between two flat cakes of cathode mix; metal foil surrounding "sandwich" serves as cathode collector. Foil is bonded to an outer plastic envelope. Required number of cells afe then enclosed in a weatherproof battery case.



Stock No.	Туре	Volts	Contacts	Size	Lbs.	List	NET
55 J 122 55 J 528 55 J 128 55 J 129	2356 2709 2713 2731 2744	9 6 4½ 6	Snap Snap Min. Snap Socket Socket	61/4×11/4×29/32" 411/6×47/64×113/32" 411/6×47/64×113/32" 811/32×13/4×213/6" 37/8×221/32×221/32"	11/4 1/2 1/2 3 11/2	1.60 1.50 1.00 2.75 1.60	1.10
55 J 132 55 J 133 55 J 142 55 J 143 55 J 144 55 J 145	2745 2746 2761 2762	6 6 9 9 12	Springs Screw Socket Socket Socket	47/6x22 ¹ /3zx2 ² /3z ² 41/4x2 ² / _{3z} x2 ² / _{3z} ² 41/4x2 ² / _{3z} x2 ² / _{3z} ² 81 ¹ / _{3z} x1 ³ / ₄ x2 ¹ / ₃ / ₆ " 45/ _{3z} x2 ² / _{3z} x51 ¹ / _{3z} "	1 1/2 1 1/2 1 1/2 3 3	1.60 1.60 2.25 2.75 3.40	1.10 1.10 1.58 1.93 2.37

WILLARD RECHARGEABLE BATTERIES



Type ER-34-2. For Portable Radios. Supplies 2 volts for 34 ampere-hours. Has plain posts. 4½x31½6x4½". Wt., 5¼ lbs. 12.53

KEYSTONE BATTERY HOLDERS

Battery holders for transistor assemblies, radios, meters, model airplanes, etc. Feature snap-clips, moisture-proof fiber washers, mounting holes and aluminum-alloy, nickel-plated eyelets. *End to end. Av. shpg. wt., 3 oz.



end. Av. shpg. wt., 5 oz.										
Stock	Mfr's	Holds	Burgess	Mallory	Eveready	15000	EACH			
No.	Туре	noing	Duigess	manory	No. 1 20.	1-19	20-299			
55 J 304	104	1		RM3R	E3	.30	.26			
55 J 187	139	1		nteron Trings	E-9, E-12,	2389	.21			
55 J 188 55 J 189	140 171	2 3	Z, 9R, Y15	RM12R, TR133R, RM502R, ZM-9	E133, E502, 915, 1015E,	.49	.44			
55 J 196	182	4 2		1,11100211, 2.11	505	.64	.57			
55J3II	189	_2_	*	· · · · · · · · · · · · · · · · · · ·	1015E	.45				
55 J 191	173	1	},	TR233R	E233, 635,	.30	.26 .34			
55 J 192 55 J 313	174	1 2 2	27 ×		935	.45	.36			
55 J 193	137		1_			.23	.21			
55 J 194	138	1 2	}7		912	.38	.34			
55 J 195	154	1 2	}N	TR152R	W468	.21	.20			
55 J 197	155	2	310	1.11	11400	.30	.32			
55 J 198	132	1		TR132R, TR115R	E132	.30	.24			
55 J 185	175	1	1		D-99, A-100	.30	.26			
55 J 201	176	2 2	2,24	RM42R	724	.38	.34			
55 J 3 1 2	186	2	*		950	.46				
55 J 199	166	1 2	}U10		411	.30	.24			
55 J 200			7010							
55 J 186 55 J 202		1 2	\U15 .	RM412R	412	.30	.24			
55 J 203		-	1		ina	.30	.24			
55 J 204		1 2	}U20		413	.38	.34			
55 J 300	225	1 2	}Y10		504	.21	.20			
55 J 303		2	17110	1	304	.35	1 .32			

Quam, Jensen, Fedtro and Fourjay Speakers_

FAMOUS QUAM SPEAKERS FOR REPLACEMENT AND NEW EQUIPMENT USE

GENERAL REPLACEMENT SPEAKERS









Pincushion

Square

For radios, phonographs, TV sets, etc. U-shaped pots provide unbroken flux path of proper cross-section to carry full energy of magnetic field. Have heavy gauge metal baskets, large, efficient magnetic structures. All 3½" to 6½" speakers, except 4A05, are supplied with universal mounting bracket. Magnets are Alnico-V. Baked enamel finish. *Indicates very shallow frame. Voice coil impedance, 3.2 ohms except †speakers for transistor application; voice coil impedance indicated by digits following Z in Type number.

Stock No.	Mfr's Type	Shape	Size	Max. Watts	Magnet Weight	Wt., Lbs.	NET EACH
59 D 424 59 D 425 59 D 422 59 D 426 59 D 453	22A06Z8 22A06Z100 25A07 27A06Z12 3A07	Round† Round† Square Round† Square*	2½" 2½" 2½" 2½" 2¾" 3½"	.25 .25 2.0 .25 2.5	.45 oz. .45 oz. .65 oz. .55 oz. .65 oz.	1/4 1/4 1/4 1/4 1/4 1/2	2.79 3.09 2.35 2.76 2.35
59 D 417 59 D 421 59 D 434 59 D 435 59 D 436	4A05 35A05 4A07 4A1 4A15	Square Oval Square* Square Square	4" 3x5" 4" 4" 4"	2.5 2.0 3.0 3.0 3.0	.55 oz. .55 oz. .65 oz. 1.0 oz. 1.47 oz.	1/4 1/2 1/2 1/2 3/4 3/4	1.73 2.47 2.53 2.70 2.97
59 D 454 59 D 460 59 D 461 59 D 427 59 D 484	46A07 46A1 46A15 48A2 410A2	Oval* Oval Oval* Oval*	4x6" 4x6" 4x6" 4x8" 4x10"	3.5 3.5 3.5 4.5 6.0	.65 oz. 1.0 oz. 1.47 oz. 1.4 oz. 1.4 oz.	3/4 1 1 1 11/4	2.79 3.00 3.23 4.67 5.26
59 D 437 59 D 438 59 D 439 59 D 478 59 D 433	5A07 5A1 5A15 52A1 52A21	Pincushion* Pincushion Pincushion Pincushion Pincushion Pincushion	5" 5" 5" 5 ¹ / ₄ "	3.5 3.5 3.5 4.0 4.0	.65 oz. 1.0 oz. 1.47 oz. 1.0 oz. 2.15 oz.	1 1 1 1 1 ¹ / ₄	2.65 2.85 3.09 2.91 3.56
59 D 405 59 D 455 59 D 447 59 D 440 59 D 441	52C10 57A1 57A21 6A1 6A15	Pincushion Oval Oval Pincushion Pincushion	5½" 5x7" 5x7" 6½" 6½"	10.0 5.0 5.0 5.0 5.0	10.0 oz. 1.0 oz. 2.15 oz. 1.0 oz. 1.47 oz.	2½ 1 1½ 1 1	5.85 3.24 3.97 3.12 3.38
59 D 442 59 D 445 59 D 462 59 D 463 59 D 428	6A21 6A31 69A2 69A3 69A1	Pincushion Pincushion Oval* Oval Oval*	6½" 6½" 6x9" 6x9" 6x9"	5.0 6.0 8.0 10.0 6.0	2.15 oz. 3.16 oz. 1.4 oz. 3.2 oz. 1.2 oz.	1½ 1½ 1½ 1½ 1¾ 1½	3.79 4.47 4.41 5.41 3.53
59 D 407 59 D 464 59 D 444 59 D 444 59 D 465	69A1S 7A31 8A21 8A31 10A31	Oval Pincushion Pincushion Pincushion Round	6x9" 7" 8" 8" 10"	6.0 9.0 7.0 9.0 9.0	1.2 oz. 3.16 oz. 2.15 oz. 3.16 oz. 3.16 oz.	2½8 2 1½2 2¼ 2¾ 2¾	5.00 5.14 4.56 5.29 6.76
59 D 479 59 D 480 59 DX 528 59 DX 533	10A4A 10A6A 12A31 12A6A	Round Round Round Round	10" 10" 12" 12"	10.0 12.0 10.0 14.0	4.64 oz. 6.8 oz. 3.16 oz. 6.8 oz.	3½ 3½ 3¾ 4½ 4½	7.61 8.53 7.03 9.38

WEATHER-PROOFED OUTDOOR SPEAKERS

Quam speakers with the exclusive "Humi-Gard" cone of plastic impregnated fiber fabric. Specially designed to outlast ordinary moisture-proofed cones. Voice coil impedance, 3.2 ohms. You can save by buying in large quantities. Write for quotations.

		O- 1		,	2		
Stock No.	Туре	Size	Shape	Watts	Magnet	Lbs.	NET
59 D 432 59 D 467	3A070T 4A10T	3½" 4"	Square Square	2.5	.65 oz. 1.0 oz.	1 1/2	2.35 2.73
59 D 431	5A150T	5″ 6″	Pincushion	3.5	1.47 oz.	11/4	3.15

HIGH-IMPEDANCE INTERCOM SPEAKERS

PM speakers designed for replacement in intercommunications systems. Voice coil impedance is 45 ohms.

Stock No.	Туре	Size	Shape	Magnet	Shpg. Wt.	NET
59 D 481	3A07Z45	3½"	Square	.65 oz.	½ lb.	2.50
59 D 482	4A1Z45	4"	Square	1.0 oz.	¾ lb.	2.85
59 D 483	5A1Z45	5"	Pincushion	1.0 oz	1 lb.	3.00

EXTENDED PANGE SPEAKERS AND TWEETERS

- ECONOMY MODELS
- FOR HOME HI-FI
- STANDARD SIZES

8A4CO 12A6CO



MODEL 8A10X 8" SPEAKER. Extended-range speaker, ideal for remote speaker in home music systems. Frequency response is ±5 db, 50-12,000 cps. Power capacity, 10 watts. 1" voice coil diameter. 10-oz. Alnico V magnet. Imped ance, 8 ohms. Wt., 31/4 lbs. 59 D 452. NET.....

MODEL 3A15T 3½" TWEETER. (Not illus.) Response, 2000-12,000 cps. ±6 db. Impedance, 14 ohms. 1.47-oz. Alnico V magnet. Power capacity, 10 watts. 2½6" deep; 31½6" mtg. ctrs. ¾ lbs.

MODEL 8A4CO 8" COAXIAL SPEAKER. 8" cone has 4.64-oz. magnet. 2½" tweeter with .65-oz. magnet. Rated at 10 watts. Range: 50-15,000 cycles, ±5 db. Impedance, 8 ohms. Wt., 2¾ lbs. 59 D 41 8. NET.....

MODEL 12A6CO 12" COAXIAL SPEAKER. 12" woofer has 6.8-oz, magnet. 3½" tweeter with 1.47-oz. magnet. Power capacity, 14 watts. Response, 50 to 15,000 cps, ±5 db. Imp., 8 ohms. 6½ lbs.

REAR-DECK AUTO-RADIO SPEAKER KIT

MODEL AS-2. Deluxe kit with heavy-duty 6x9" speaker—withstands severe road shock. Has 2.15-oz. Alnico V magnet and 1" voice coil. Provides exceptionally fine tonal quality. Kit is supplied complete with fader control, 18 feet of cable, flocked screen grille, baffle plate, sponge rubber gasket, mounting hardware and instructions. Shpg. wt., 314 lbs 59 D 446. NET 8.20

JENSEN "CONCERT SERIES" SPEAKERS



Jensen's highly popular "Concert Series" PM speakers. DP-Alnico V magnets for exceptionally high efficiency and distinct reproduction. Cones are selected for maximum frequency response characteristics. Rigid frame maintains proper alignment of voice coil and magnet structure. All speakers listed below have 3.2-ohm voice coil impedance. All except P4-W have bracket for mounting matching transformer.

Stock No.	Mfr's Type	Size	Shape	Magnet	Watts	Wt., Lbs.	NET
59 D 498 59 D 499 59 D 486 59 D 506 59 D 487	P4-W P5-W P5-V P6-W P6-V	4" 5" 5" 6"	Square Square Square Square Square	1.0 oz. 1.0 oz. 1.47 oz. 1.0 oz. 1.47 oz.	4.5 5.0 5.5 6.0 6.5	1½ 1¾ 1¾ 1¾ 2 2	2.56 2.62 2.85 2.88 3.20
59 D 488 59 D 492 59 D 489 59 D 490 59 D 491 59 DX 534	P6-T P69-V P8-U/ P8-T P10-T P12-T	6" 6x9" 8" 8" 10" 12"	Square Oval Square Square Round Round	3.16 oz. 1.47 oz. 1.73 oz. 2.5 oz 2.5 oz. 2.5 oz. 2.5 oz.	7.5 7.5 9.0 10.0 11.0 12.0	2 2½ 2½ 2½ 2¾ 5 5	4.59 4.26 4.23 4.94 6.32 6.76

FEDTRO ALL-PURPOSE EXTENSION SPEAKER



Use it indoors—outdoors—anywhere. Can be connected to the speaker leads of your hi-fi system, radio, TV set, phonograph—and even your car radio! Can be hung from wall, stood up on its wire frame stand, or mounted on posts with screw-on bracket supplied. Beautifully styled too—heavy black plastic housing, with speaker grille in gold mesh. Includes 20-ft. connecting cable tipped with miniature alligator clips—no soldering, no tools. 3½" speaker for clear sound. 8 ohms. Shpg. wt., 1 lb.

57 D 598. List, \$7.95. NET.......3.69 Use it indoors—outdoors—anywhere. Can

NEW FOURJAY EXTENSION SPEAKER



"LITTLE GENERAL" MODEL S-WD-5-DS. 5" speaker performs nearly as well as an 8" in sensitivity and response. 5 watt power capacity makes it suitable for outdoor use.

Knight, Utah, Fedtro, Misco Speakers

TOP BUYS IN REPLACEMENT SPEAKERS

Excellent quality permanent magnet speakers at very low prices. Actually cost less than a reconing job. Designed for universal replacement usealso, recommended for original equipment. Big money savers for radio and TV servicemen, as well as "do-it-yourselfers." Built to EIA standard dimensions—rugged construction throughout. Rigid frame assures permanent alignment of integral parts. Magnet and voice coil are precision centered. 4" and 5" speakers have four holes in pot for easy mounting; furnished with universal mounting bracket. Fully dustproofed. Made in U.S.A. Impedance, 3.2 ohms except † 8 ohms.

*Extended range for wider response.



Stock			Mag.		Wt	NET EACH		
No.	Size	Shape	Wt.	Max. Watts	Lbs.	1 to 5	6 or More	
59 D 476	4"	Square	.68 oz.	3.0	1/2	1.13	.99	
59 D 477	5"	Round	.68 oz.	3.5	3/4	1.30	1.17	
59 D 472	5x7"	Oval	1.0 oz.	5.0	1	1.60	1.44	
59 D 471	6x9"	Oval	1.47 oz.	8.0	11/4	2.15	1.94	
59 D 493	*6x9"	Oval	1.47 oz.		1 1/4	2.30	2.07	
59 D 416	†6x9"	Oval	1.47 oz.		1 1/4	2.15	1.94	
59 D 470	8"	Round	2.15 oz.		1 1/2	2.30	2.07	
59 DX529	12"	Round	3.16 oz.		3 3/4	3.90	3.51	

NEW! UTAH "THIN-DRIVE" SPEAKERS

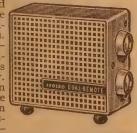
A major breakthrough in design ends speaker replacement guesswork! New super Thin-Drive speakers are sure to fit because they're thinner than original speakers. The slim profile is made possible by a new wafer-thin Lodex magnet developed by G.E. And you get far more drive per ounce with the new featherweight one-piece pot. Fidelity often exceeds that of original equipment. Speakers are highly resistant to changes



Stock No.	Туре	Size	Shape	Lbs.	List	NET
59 D 408	SP3RY	3"	Square	1/4	\$3.70	2.18
59 D 409	SP35RY	31/2"	Square	1/4	3.40	2.00
59 D 410	SP4RY	4"	Square	1/2	3.50	2.06
59 D 413	SP46RY	4x6"	Oval	1/2	4.30	2.53
59 D 411	SP5RY	5"	Pincushion	1/2	3.80	2.23
59 D 414	SP57RY	5x7"	Oval	3/4	4.70	2.76
59 D 412	SP6RY	6"	Pincushion	3/4	4.40	2.59
59 D 415	SP69RY	6x9"	Oval	3/4	5.40	3.16

FEDTRO PERSONAL DUAL REMOTE-CONTROL SPEAKER

Enjoy personalized listening. For use with TV sets, ra-dios, and phonos. Has 2 controls one adjusts set vol-ume, other adjusts remote speaker. Either speaker can be turned all the way off, or both can be on simultaneous-



NEW MISCO ALL WEATHER SPEAKER

Model MS-3-B. Completely self-contained "Mini-Speaker" in 20-gauge steel enclo-sure, It's compact, weatherproof and dustproof. So tough that it's used in our Navy's atomic sub-



All-weather enclosure is electro-static finished with two coats of baked-on enamel. Acoustically designed enclosure has horizon-Acoustically designed encrosure has horizon-tal louvers with perforated plate backing. Plastic impregnated cloth cone. Floating mount cushions speaker. Has Alnico V, 1-oz. magnet and removable audio input phono jack. 8 ohms. 3³/₄x3³/₄x2¹/₂". 1¹/₂ lbs. 59 D 404. List, \$7.95. NET........4.97

TOP BUYS IN COAXIAL SPEAKERS

Outstanding coaxial speaker values for budget-minded music lovers. Ideal for use in economy

As hi-fi systems, as extension speakers in recreation room or den, and for improving the tone of radios and phonographs. Clear highs and faithful lows. Impedance, 8 ohms, Large "Alnico V" magnets. Built-in crossovers, Made in U.S.A.

New 6x9" Coaxial Speaker. 6x9" cone; has 2.15 oz. magnet. 2" tweeter with 0.53 oz. magnet. Rated at 8 watts. Range: 50-10,000 cps. Crossover frequency: 3500 cycles. Shpg. wt., 1½ lbs. 59 D 535. NET.....

8" Coaxid Speaker. 8" cone. Has large 2.15 ounce magnet. Handles up to 8 watts. Frequency response: 55-12,000 cycles. Crossover frequency: 3000 cycles. Shpg. wt., 3 lbs.

59 D 475. NET..... 12" Coaxial Speaker. 12" cone; has 6.8 oz. magnet. 3½" tweeter with 1 oz. magnet. Rated at 15 watts. Range: 55-12,000 cycles. Crossover: 2000 cycles. Shpg. wt., 8 lbs.

15" Coaxial Speaker. 15" cone; has 6.8 oz. magnet. 5" tweeter with 1.47 oz. magnet. Rated at 20 watts. Range: 45-12,000 cycles. Crossover frequency: 1800 cycles. Shpg. wt., 11 lbs.

ALLIED SPEAKER REPAIR SERVICE

Hi-Fi Speaker Service. Includes replacing cone, gasket, voice coil, spider and dust cover. Pack speaker and ship to us by insured parcel post or express. Allow 30 days return delivery.

Standard Speaker Service. General purpose speakers are rebuilt. Additional charges for field coil repair or replacement as follows: \$1.25 for 4"-9"; \$2.25 for 10"-12". Field coils welded into frames cannot be replaced. Ship speaker prepaid. Send remittance (including postage) with order. Allow 30-45 days return delivery.

Size	Service	Size	Service	Size	Service
4" to 6" 6½" to 9" 10"	1.75 2.55 2.95	14" to 15" 4"x6" oval 11" to 12"	3.85 2.00 3.25	5"x7" oval 6"x9" oval	2.55

KNIGHT REAR-DECK AUTO SPEAKER KITS

Standard Kits. New low prices for a luxury item. Economy kits are ready for quick installation in any car. Assure excellent tone and greatly improved sound distribution. Speakers allow passengers in rear to hear radio clearly without it being too loud for the driver. Kit consists of: quality PM speaker, dash-mounted, pre-wired control switch, grille, wire, template, handy screw terminals for easy mounting and instructions. Made in U.S.A.



Stock No.	Size	Grille	Lbs.	NET	Stock No.	Size	Grille	Lbs.	NET
59 D 473 59 D 474	5x7". 5x7"	Gray Chrome	2 2	2.98 3.10	59 D 468 59 D 469	6x9" 6x9"	Gray Chrome	21/2 21/2	3.80 3.96

Deluxe Kits. Reduced prices for high quality extended range kits with duo-type 6x9" speaker. Specially designed high frequency whizzer is mounted at speaker's center. Provides rich, balanced reproduction of bass and treble. Employs the natural baffle of the automobile body to deliver smooth tonal reproduction throughout the entire audio range. A dash-mounted, 3-way speaker switch permits playing radio speaker only, rear speaker only, or both simultaneously. With hardware, dash switch, wire and instructions. Transistorized radio kits have 8-20-40 ohm speaker and fader control. Made in U.S.A. Wt., 2½ lbs. For Non-Transistorized Radios. For Non-Transistorized Radios

59 D 430. With Gray Grille. NET... 3.96 59 D 429. With Chrome Grille. NET. 4.10 59 D 401. With Gray Grille. NET... 4.89 59 D 402. With Chrome Grille. NET. 4.99

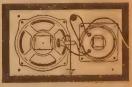
KNIGHT HI-FI REAR-DECK SPEAKER

KNIGHT HI-FI REAK.

8 Type true hi-fi sound as you ride. 5" woofer, 3" tweeter and unique transistor-type capacitor and induction coil crossover network are wired and assembled on a baffle. Entire baffle board mounts in 6x9" cutout, no additional cutting is necessary. Kit includes grille, hardware, prewired and pre-soldered 3-position switch, knob, dial plate and solderless connectors. Includes instructions. Made in U.S.A. Shpg. wt., 2½ lbs.

59 D 403. With Chrome Grille, NET. 59 D 403. With Chrome Grille. NET.....





REAR-DECK AUTO SPEAKER ACCESSORIES

Speaker Grilles. Distinctive chrome finish grilles for rear-deck speakers. Sparkling chrome finish stays bright after years of use. Includes hardware. Av. wt., 1 lb. 59 D 494. For 6x9" Speaker. NET..... G-C Auto Radio Speaker Selector Switch—Type 8891. Dash-mounted control allows you to select front speaker, rear speaker or both simultaneously while in the driver's position. Exceptionally easy to install. With hardware, metal plate and instructions. Wt., 3 oz.

LINCOLN HEADPHONES AND ACCESSORIES



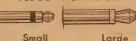
STANDARD DUAL HEADPHONES

Have double headband with firmly gripping, easily adjustable yokes. Powerful Alnico permanent magnets for efficiency over wide frequency range. 11/8" diaphragm. 4½-ft. cords are cotton-covered tinsel. Inside terminal shock-resistant connections. Shpg. wt., 1¼ lbs.

59 D	110. 2000 Ohms. NE	r2.0	8
59 D	111. 3000 Ohms. NE	7	6
	149. 4000 Ohms. NE		
	141. 11 Ohms. NET		
	SINCLE HEADRH		

Dependable, economy-priced single phones. Suitable for hard-of-hearing installations, receivers, crystal sets, Geiger counters, etc. Diaphragm is 17%" in diameter. Has spring-metal headband which is permanently attached to back of case. Equipped with 4½-ft. cotton-covered tinsel cord. Shpg. wt., 8 oz.





Replacement earpieces with 3-foot cord and Replacement earpieces with 3-100t cord and plug. Match your present plug diameter with illustration to order correct Stock No. except, *for GE and Westinghouse made before 1960. ‡Better quality earpieces with superior sensitivity and fidelity from Denmark, †From Japan. Shpg. wt., 5 oz.

Stock No.	Type	Plug Size	EACH
59 D 018		Small Dia. Barrel	.69
59 D 019		Large Dia. Barrel	.69
59 D 023		Small Dia, Barrel	1.69
59 D 024		Large Dia. Barrel	1.69
59 D 025			1.69

NEW SUPER POWER EARPIECE



Extremely sensitive dynamic earpiece especially useful with low output transistor circuits.

Have adjustable headbands, Hyflux Alnico magnets, internal terminal connections. Cap and case are molded bakelite. All headphones with 4½-ft. cord of cotton-covered tinsel, standard phone tip terminals. Choice of single or dual types; low-impedance models may be inserted directly at loudspeaker tap.

INSTITUTIONAL DUAL HEADPHONES

(Not illus.) For schools, hospitals, and other institutions where dependable, lightweight headphones are needed. Durable, easily cleaned bakelite cases, inside terminal connections for safety. Alnico magnets provide crisp, clear reproduction of voice and music.

59 D 101. 3000 Ohms. NET. 2. 2.28

HEADPHONE REPLACEMENT PARTS

Replacement parts for the Lincoln headphones listed on this page.

Stock	Description	Wt.,	EACH
No.		Oz.	NET
59 D 106	Diaphragm, Pkg. of 2 Bakelite cap Headband with yokes	2	.13

HEADPHONE CORDS



Copper conductor covered with woven cotton braid. Have 2 phone tips at one end; *refers to opposite end of cord. For phones on this and following pages. Wt., 2 oz.

41/2 Ft Double Cords

Stock No.	*Terminals	For Use With	NET EACH
	Eyelet type. For inside terminals	59 D 100,-101, -110,-111,-125, -126,-172,-135, -136,-137,-215 59 D 130	•50
	Has phone tips on both ends Small blunt tips	Govt. and military types 59 D 070	•50

14			5	Fr.	Double	Cords		
59 59	DD	181	Large Eyelet	blunt type	tips	59 D 020, 59 D 151,-	-021 -163	.54

6 Ft. Double Cords

59	D	007	Larg	ge	blun	t tips	59 D 040	001	.58
		1 c.	17	8	Ft.	Double	Cords		
				_					

59 D 221 Eyelet type	Same as type 59 D 220 above	
59 D 2 8 Eyelet type 59 D 2 9 Has phone tips on both ends	59 D 130 Govt. and Military type	.74
TARIO A Similar		

59 D 200 4 ft. cord with eye- | 59 D 112,-113 |

RUBBER PHONE CUSHION



Molded rubber ear cushions slip over phones. Provide maximum wearing comfort.

Wt., 6 oz. 59 D 168. NET, PAIR...64



CANNON-BALL RADIO HEARING AID

Popular, low-priced hearing aid for any radio or TV set. Speciallyconstructed low-impedance headphone matches the output of radio or
TV-set. Built-in selector control switch permits listening with speaker
only, headphone only, or both speaker and headphone simultaneously.
Complete with control box, connecting cables for attachment to
speaker and attachment of headphone to control box, instructions
and diagram. Shpg. wt., 1 lb.

3 38

59 D 118, NET...

C. F. CANNON HEADPHONES AND ACCESSORIES



BRANDES BS-2 "SU-PERIOR" PHONES. Rugged 2000 ohm headset. Has out-side terminals, metal cases, bakelite caps, 21/8" diaphragm, 2 coils in each case. Comfortable, metal headband is easily adjusted to the desired size. 41/2 ft. cord in-

cluded. Shpg. wt., 11/2 lbs. 59 D 130, NET. BRANDES "ADMIRAL" PHONES. Similar to above but with inside terminals. above but with inside terminals.
59 D 135. BA-2. 2000 ohms. NET. . . 2.50
59 D 136. BA-3. 3000 ohms. NET. . . 2.66
59 D 137. BA-5. 5000 ohms. NET. . . . 3.08 REPLACEMENT CAPS AND DIAPHRAGMS. For "Superior" and "Admiral" phones, above. 59 D 138. Caps. Wt., 2 oz. EACH.................21 59 D 140. Diaphragms. 2 oz. Pkg. of 2.13



CANNON-BALL "MASTER" PHONES. Highquality headset for communications and general-purpose applications. Cases are metal, with bakelite caps. Terminals are inside of case for maximum safety from tampering.

59 D 215. MC-2, 2000 ohms. NET. 2.50 59 D 125. MC-3, 3000 ohms. NET. 2.65 59 D 126. MC-5, 5000 ohms. NET. 2.92



CANNON-BALL CC-2 "CHIEF" PHONES. Sensitive and practical headset for all general use. Inside terminal connections. 2½6" diaphragms; bakelite case and cap. Vinyl plastic cov-ered headband. 2000 ohms. With

4½-ft. cord. Shpg. wt., 1¼ lbs. 59 D 172. NET.....

CANNON TV HEADPHONE KIT



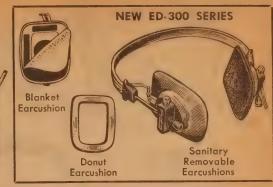
High-quality listening device to aid hard-of-hearing, or provide private, "silent" listening when others might be disturbed by loud-speaker operation. Volume control and Speaker-Phones switch on control box. Supplied with 15-ft. cord, and two pairs of headphones. Shpg. wt., 3 lbs. 59 D 175. NET SINGLE HEADSET KIT. Same kit as above, but with only one pair of phones. 2 lbs. 59 D 176. NET...

CONTROL BOX ONLY. Shpg. wt., 9 oz

-Headphones and Accessories

CLEVITE "BRUSH" HEADPHONES





A BA-200 Headphones. Very sensitive headphones with high impedance (45,000 ohms at 1000 cps.) except *wired for stereo (90,000 ohms). Frequency response, 100 to 5000 cps. Require small DC blocking capacitor for DC circuits. With 5-ft. cord. Shpg. wt., 2 lbs.

Stock No.	Туре	Termination	·1-9, EA.	10-24, EA.	25-Up, EA
59 D 151 59 D 008 59 D 260	BA-200-2	Std. Phone Plug Eyelet Terminals Eyelet Terminals	16.90	16.45	15.50

BA-201	Headphone.	Simlar to	model	BA-200	but,	single	head-
phone.	90,000 ohms.	Phone ti	os. Shog.	wt., 1 lb.			
59 D 1	56. 1-9, EAC	Н					4.65
10 24	EACH	1.4.5	25 11	EACH		70	3 45
10-24,	EACH	14.4	20 23-0	p, excn			0.70

B BA-206 Hi-Fi Headsets. Feature flat response from 50-10,000 cps with low distortion and excellent bass reproduction. *Wired for stereo. †Impedance @ 1000 cps. Shpg. wt., 2 lbs.

Stock No.	Type	Ohms†	Termination	1-9, EA.	10-24, EA.	25-Up, EA
59 D 163	BA-206-1	50,000	Std. Phone Plug	30.28	29.30	27.75
59 D 005	BA-206-2	50,000	Eyelet Terminals	30.28	29.30	27.75
59 D 154	BA-206B*	100,000	Eyelet Terminals	32.54	31.55	29.90

BA-220 Hi-Fi Headsets. Quality headphones with ear cushions and wired for stereo or monophonic listening. 50-10,000 cps. Imlance 50,000 ohms. Eyelet terminals. Wt., 2 lbs.

59 D 052. 1-9, EACH... 10-24, EACH......32.7,5

New Clevite "Brush" ED-300 Series Headphones. Designed to meet the New Clevite "Brush" ED-300 Series Headphones. Designed to meet the unique requirements of the modern language training center—highly practical and economical instruments for the classroom. Most important innovation is the removable washable, foam rubber earcushions which pull right off and attach by pressing together the "Velcro" patented hook-and-eye fabrics. Low cost of cushions makes possible a personal sanitary set for every student. Each headset includes std. phone plug and blanket cushion. Alternative donut cushion accessory is desirable for extended listening or where external noises would otherwise be distracting.

Other features include: Balanced, light construction for listener comfort with wide headband to accommodate any hairstyle. Pushbutton release to permit instructor to rotate either phone 90° for monitoring. Exceptionally flat frequency response, 50-10,000 cps; high impedance, 50,000 ohms at 1000 cps. Specify color: Black, Coral, Suntan, or Spruce Green. Wt., 1 lb.

27.44

Blanket Earcushion. Comfortable, easy-to-clean, polyurethane foam cushions. Easily attached and detached. Shpg. wt., 2 oz.

Donut Eurcushion. Has extra foam padding for extended listening and to cut off external noise. Shpg. wt., 3 oz. 59 D 015, NET PER PAIR ...

Boom-Type Microphones for ED-300 Series Headsets. Quality microphone for use with above educational headsets—offers matching frequency response of 50 to 10,000 cps. Attach directly to headset and are of high impedance type, 1 megohm @ 1 kc, with -60 db sensitivity. With 5-foot ivory cord. Shpg. wt., 4 oz.

17.39

TRIMM HEADPHONES AND ACCESSORIES





itary headphone specifications. Impedance, 20,000 ohms; DC resistance, 2,000 ohms. Metal shell with bakelite cap. 6 ft. "Military" Type. Constructed to meet milcord. Inside terminals. Ru headband. Shpg. wt., 11/2 lbs. Rubber-covered

E "Featherweight" Type. Weigh less than 5 ounces. Black bakelite caps and shells. Forged magnets; pole pieces of permalloy. Impregnated coils. Supplied with flexible 6-ft. moisture-proof braided tinsel cord. Enclosed terminals. Shpg. wt., 9 oz.

59 D 000. Standard. 4000 ohms. 59 D 001. Special. 24,000 ohms.

59 D 042. Diaphragms. For either 59 D 013. Replacement Caps. For "Featherweight" phones. 2 oz. EACH...41 phones for general use. Bakelite caps and shells. Forged magnets of chrome steel, impregnated coils. 5-ft. cord. Inside terminals. Have comfortable plastic-covered headband. Shpg. wt., 11/4 lbs.

59 D 02 1. 4000 ohms. NET..... 59 D 030. Replacement Caps. EACH...35 59 D 031. Extra Diaphragms. EACH....12

Extra Diaphragms. For above. 2 oz. 59 D 012. EACH......12

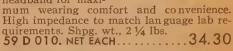
LORGNETTE TYPE EARPHONE



Hand-held type hearing aid. Same construction as "Featherweight"

NEW TURNER HEADSET AND MICROPHONE UNITS

Model 270 Dynamic Headset. Designed for highest quality reproduction over the entire frequency range; highly rec-ommended for lan-guage classes. Features moving coil dynamic design; polyurethane foam ear pads; wide double headband for maxi-



Combination Model 270 Dynamic Headset and Model 265 Dynamic Boom Microphone. Designed for comfort and convenience. Mike attaches to headset with just two connections. High impedance. Wt., 2½ lbs.

59 D 011. Headset and Mike Combination BOTH UNITS......53.90

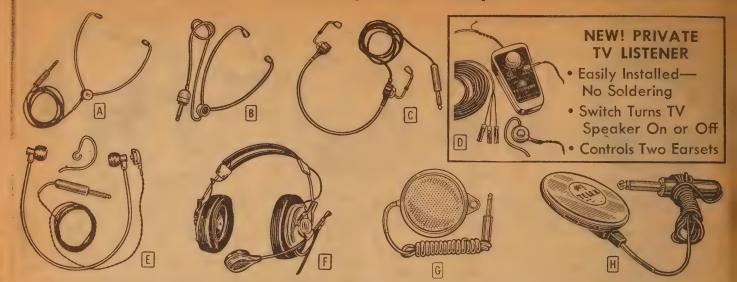
TRIMM INDIVIDUAL VOLUME CONTROL



Consists of phone jack and volume control mounted in compact box. Ideal for group hearing aid systems in theaters, churches, schools, etc. Resistance: 10,000 ohms. Size: 3³/₄x 2½81½". Shpg. wt., 1 lb. 59 D 056. Brown wrights. 59 D 057. Glossy Ivory.

NET EACH 3.23

Earphones, Accessories and Telephone Pickups____



TELEX EARPHONES FEATURE COMFORT, CLARITY AND DURABILITY

METAL MONOSET

METAL MONOSET

A Exceptionally comfortable, light weight headphones, designed to eliminate fatigue and strain even when worn continuously for long periods. Weighs only 1.2 ounces! Rugged magnetic speaker unit for crystal clear reproduction and rugged dependability. Response is from 50 to 6500 cps with high sensitivity, 88 db. Normal listening level requires only 1 milliwatt input—maximum level is 25 milliwatts. Light metal housing with comfortable, white plastic earplugs, easily removed for cleaning. Supplied complete with 5-foot cord and standard ¼" phone plug. High or low impedance. Shpg. wt., 8 oz.

59 D 223. Model HMV-2. 125 ohms.
59 D 222. Model HMY-2. 2000 ohms. 7.75

DICTATION DYNASET

FAA-APPROVED TWINSET

NEW TV LISTENER

Model LCP-90. All-new TV or radio listener provides private listening without disturbing others or additional sound volume for the hard-of-hearing. Control case holds jacks for two earsets, volume control for earsets, and switch turning TV speaker off or on—earset works with or without speaker on. Connects without any soldering. With one earset and 15-foot cord to permit armchair ease at most comfortable viewing distance. 1 lb. 59 D 263. List, \$15.60. NET. 9.37 59 D 292. Extra Earset for Above. EA.2.87

SECRETARYS' TELE-FI

SECRETARYS' TELE-FI

Ideal for secretaries, board operators, and radio-TV monitoring. Tone arm connecting ear tips delays sound to one ear by one millisecond to give greater clarity and intelligibility. Weighs only ½ oz. Freq. response 60 to 6000 cps. Ear loop included for one ear listening. Does not muss hair—worn under chin. With 5-foot cord and std. ½" phone plug. Wt., 6 oz. 59 D 214. Model HFR-91. 15 ohms. 59 D 257. Model HFV-91. 125 ohms. 59 D 028. Model HFW-91. 500 ohms. 59 D 258. Model HFX-91. 100 ohms. 59 D 217. Model HFY-91. 2000 ohms. 59 D 217. Model HFY-91. 2000 ohms. 6.35

NEW MAGNA-TWIN MARK III HEADSET

New wide-range headset with muff style foam rubber ear cushions combines high sensitivity with rugged construction. Specially designed for language learning laboratories, general communications applications, and dental analgesia systems. Also available with boom mike as illustrated. Close coupling of headphones gives outstanding intelligibility overfreq. range of 50 to 9000 cps. Gray. With 5-foot cord and std. ¼" phone plug. 1½ lbs. 59 D 032. Model M R-4. 10,000 ohms. 59 D 033. Model M R-3. 50,000 ohms. 17.16

Combination Headset/Boom Mike. 500/

Combination Headset/Boom Mike. 500/600 ohm headset with 50-ohm carbon mike (300-4000 cps). 2 lbs. List, \$48.50.
59 D 034. Model MRB-45. NET 29.10

59 D 035. Model MRB-75. Same as Model MRB-45, except only one earphone. Wt., 2 lbs. List, \$35.52. NET........................21.33

DYNAMIC PILLOW SPEAKER

Top quality under-pillow speaker utilizing moving coil diaphragm to give wide range tonal quality to private listening. SDN-2A is ideal for institutional use, or private listening at home to radio or TV set. SDN-2A, 3.2 ohms; SDM-2A, 10,000 ohms. Enclosed in easily sterilized stainless steel shell 11/8" thick by 33/4" dia. With 5-ft. cord. and std. 1/4" phone plug. Shpg. wt., 12 oz.
59 D 276. SDN-2A. List, \$10.50. EA. ... 6.18
59 D 277. SDM-2A. List, \$15.37. EA. ... 9.22

MAGNETIC PILLOW SPEAKER

Exceptionally flat, waterproof, pillow speaker for home or institutional listening. Approved for use in Veterans Administration units. 5%" thick by 2½" dia. With gray plastic housing. Sealed against corrosion and moisture—readily sterilized. With 5-foot cord and std. ½" phone plug. Shpg. wt., 6 oz. 59 D 227. Model SMV-2A. 125 ohms. 59 D 226. Model SMY-2A. 2000 ohms. 5.46 List, \$9.10. EACH.

CORDS, EXTRA TIPS AND ACCESSORIES

Stock	Connects	Type No. and	NET
No.	to Fig.	Description	EACH
59 D 270	C, H	CMM-2. Gray 5' cord w/std 1/4" plug.	2.13
59 D 253	A, E	CMT-2. Gray 5' cord w/std ¼" plug.	2.13
59 D 252	C, H	CMM-92. Gray 5' cord w/90° 9'64" min. plug.	1.65
59 D 037	A, E	CMT-92. Gray 5' cord w/90° 9'64" min. plug.	1.65
59 D 038	A, E	CMT-98. Gray 5' cord w/min. phone plug.	1.86
59 D 246	C, H	VVM-2. Cord w /64 ohm volume control.	5.40
59 D 041	C, H	VWM-2. Cord w /500 ohm volume control.	5.40
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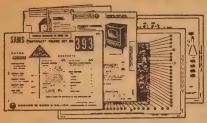
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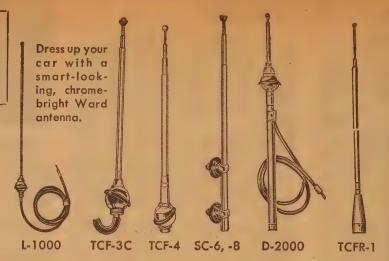
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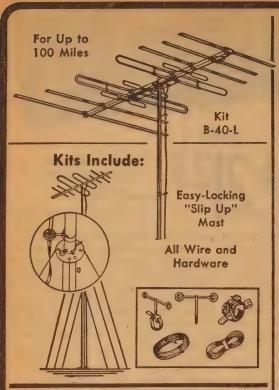
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Stock No.	Туре	Description	Shpg. Wt.	EACH
91 CZ 316	E-30 E-30-L	30-ft. mast; with rotator package 30-ft. mast; less rotator package	80 lbs. 56 lbs.	97.76
91 CZ 318 91 CZ 319	E-40 E-40-L	40-ft. mast; with rotator package 40-ft. mast; less rotator package		103.11

★★★ DEEP-FRINGE KNIGHT ANTENNA KITS

Include the Knight 4-Star gold-corodized antenna for clear, snow-free pictures on channels 2 to 13; all installation accessories; and detailed instructions.

Stock No.	Туре	Description	Shpg. Wt.	EACH
91 CZ 383	C-20	20-ft. mast; with rotator package 20-ft. mast; less rotator package 30-ft. mast; with rotator package 30-ft. mast; less rotator package 40-ft. mast; with rotator package 40-ft. mast; less rotator package	55 lbs.	68.35
91 CZ 384	C-20-L		31 lbs.	30.93
91 CZ 385	C-30		71 lbs.	72.44
91 CZ 386	C-30-L		47 lbs.	34.54
91 CZ 387	C-40		82 lbs.	76.51
91 CZ 388	C-40-L		58 lbs.	39.09

*** FRINGE KNIGHT ANTENNA KITS

Include the Knight 3-Star gold-corodized antenna for outstanding performance in fringe areas; all installation accessories; and easy-to-follow instructions.

Stock No.	Type	Description	Shpg. Wt.	EACH
91 CZ 389	B-20	20-ft. mast; with rotator package	50 lbs.	62.38
91 CZ 390	B-20-L	20-ft. mast; less rotator package	26 lbs.	24.96
91 CZ 391	B-30	30-ft. mast; with rotator package	66 lbs.	66.47
91 CZ 392	B-30-L	30-ft. mast; less rotator package	42 lbs.	28.57
91 CZ 393	B-40	40-ft. mast; with rotator package	77 lbs.	70.54
91 CZ 394	B-40-L	40-ft. mast; less rotator package	53 lbs.	33.12

-ALLIED'S Catalog is Your Complete TV Antenna Guide-

Replace Your Weather-Worn Antenna



Bent, Broken, Worn Elements

enjoy the best picture Quality your set can deliver. Don't let a weather-worn antenna spoil your TV enjoyment. Weathering can cause a gradual decrease of picture quality. So before blaming your TV set, check your antenna! A new antenna can restore lost picture brightness and detail.



Corrosion on Connectors

DEPEND ON ALLIED for your antenna needs. Whether your location requires a simple indoor type or a more elaborate fringe-area array, Allied has the antenna you need, listed in these pages. Our stocks include a full selection of antennas as well as necessary installation accessories.

How To Select Your TV Antenna







Outdoor Antenna



Installation Accessories

Ranges are indicated below. If in doubt, select antenna in next higher group. Stacking two (of same type), gives up to 50% more signal—needed in locations over 200 miles from station or where hills, etc., interfere.

★ Metropolitan-Suburban (up to 40 miles).
★ ★ Semi-Fringe (up to 60 miles).
★ ★ ★ Deep-Fringe (up to 125 miles).
★ ★ ★ Super-Fringe (up to 200 miles).





HIGH-LOW ANTENNA KITS

- Highly Efficient 2-Band Design
- Receptors "Aim" Separately—
 Give Best Signal on Each Band
- Mounting Hardware Included

HIGH-LOW ANTENNA KIT WITH CHIMNEY MOUNT

A two-band VHF Knight antenna kit at a remarkably low price. Separate directional adjustments permit "aiming" high and low-band elements individually. Gives peak performance in areas where high and low-band signals come from different directions. Provides excellent reception of color and black and white programs, channels 2 to 13.

★ HIGH-LOW ANTENNA KIT WITH ROOF MOUNT

Same as above, but with a universal-angle roof mount. Shpg. wt., 9 lbs.
92 CX 047 ONLY 6.95

* HIGH-LOW ANTENNA ONLY

 Metropolitan and Near-Fringe Antennas

Knight TV Antennas and Antenna Kits



GOLD ANODIZED IN-LINE ANTENNA KITS

- Resist Corrosion and Rust
- Rugged 1/2" Aluminum Tubing
- Quickly, Easily Installed

★ IN-LINE KIT WITH CHIMNEY MOUNT

Complete VHF Knight antenna kit at a low, money-saving price. Time-proven inline design provides sharp, clear color and black and white pictures on channel 2 through 13. Has a flat response—important for consistent picture quality in color TV reception—and good directivity.

* IN-LINE KIT WITH ROOF MOUNT

* IN-LINE ANTENNA ONLY

STANDARD IN-LINE ANTENNA KITS

* IN-LINE KIT WITH CHIMNEY MOUNT

As above, with accessories; but with univer-

sal-angle roof mount. Wt., 9 lbs.
92 CX 041......ONLY 6.95

CONICAL ANTENNA KITS

- "Quick-Rig" Installation
- Highly Efficient Reception
 On All VHF TV Channels
- Rugged, Trouble-Free Design

* SINGLE-BAY CONICAL KIT WITH CHIMNEY MOUNT

Value-packed Knight antenna kit for excellent reception of all VHF channels (2 through 13). Solidly constructed elements are made of 3/6" aluminum tubing; crossbeam of heavy-1" aluminum. Provide high gain performance for both color and black and white sets. "Quick-Rig" design cuts down installation time. Kit includes: conical antenna; sturdy 5-foot steel mast; 50-feet of 300-ohm twin line; 2 mast standoffs; 4 screw-in standoffs; lightning arrester; straps and clamps for chimney mounting. Everything for a first-class TV antenna setup. Shpg. wt., 7 lbs.

* SINGLE BAY CONICAL KIT WITH ROOF MOUNT

Same as above, but with a universal-angueroof mount. Shpg. wt., 6 lbs. 92 CX 135......ONLY 6.25

** TWO-BAY CONICAL KIT WITH CHIMNEY MOUNT

** TWO-BAY CONICAL KIT

* SINGLE-BAY ANTENNA ONLY

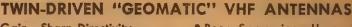
Above single-bay, but less all accessories. Shpg. wt., 3 lbs.

92 CX 136. ONLY 2.65

STACKING KIT. To stack 2 single-bay conicals into 2-bay array. Wt., 8 oz.

FINNEY Fringe-Area TV Antennas

- Absolute Flat Response for Color and Black-White TV Reception
- Gold Corodizing, 100% Protective Surfacing on Aluminum Antennas



- High Gain—Sharp Directivity
- Pre-Assembled for Easy Set-Ups
- Boom Suspension—Heavy Duty

• Flat Response for Color Reception

 $\star\star\star\star$ MODEL B-7—125 Miles. Has same features as Model B-8 above, but with 1 reflector instead of two. Shpg. wt., $6\frac{1}{2}$ lbs.



CO-LATERAL UHF-VHF ANTENNA



• Lets You Use One Antenna-One 300-ohm Twin Line

High Sensitivity and Directivity

High Sensitivity and Directivity

****MODEL 400-A—125 Miles. A deepfringe double co-lateral antenna for outstanding reception on all UHF and VHF
TV channels. 32 driven elements achieve
extremely high gain, directivity and signalto-noise ratio. Permits excellent reception
on VHF channels at distances of 125 miles
and more. Lightweight construction—
weighs only 8 lbs. Element brackets selflocking and self-aligning. Rugged allaluminum construction and stainless steel
hardware. Only one lead-in required (tubular type recommended). Requires 10-ft.
(minimum) mast. Less mast and 300-ohm
line. Wt., 12 lbs.

92 CZ 269. List. \$43.65.... NET 25.67

SUPER-FRINGE ANTENNA



quiven low-band, in-phase folded dipoles, plus 12 driven high-band, in-phase, folded dipoles form a highly effective colinear array. Extremely high sensitivity and directivity. Rugged, lightweight, aluminum construction. Preassembled for quick, simplified installation. Less mast, 300-ohm twin line. Shpg. wt., 13 lbs.

92 CZ 269. List, \$43.65....NET 25.67 92 CZ 072. List, \$47.85....NET 28.14

VHF BROAD-BAND TV ANTENNA KIT



**MODEL B-213-60-Miles. Own a lowcost compact, twin-driven antenna with excellent gain on both low and high bands. Modern design provides performance rivalling that of more costly stacked conicals and many yagi-type antennas. "Fidelity-Phasing" assures remarkable reception on both color and black and white. Has extremely narrow pick-up pattern and very high front-to-back ratio. All-aluminum preassembled design. Withstands icing. Less mast, and 300-ohm twin line. Shpg. wt., 4 lbs. compact, twin-driven antenna wit 91 CZ 396. List, \$11.85..... NET 6.97

★★★MODEL B-213S—85 Miles. Same antenna as above, but stacked for extra gain. Shpg. wt., 6 lbs.

91 CZ 397. List, \$24.00..... NET 14.11



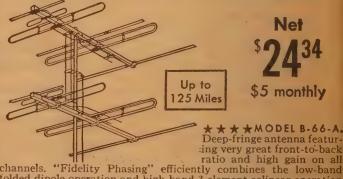
T-AMB TV-FM BOOSTER/COUPLER

STACKING KITS

MODEL A. For stacking all Series B antennas, above, Gives increased gain on Channels 3, 7-13 with Models B-6, B-7; Chs. 7 through 13 on all other models. Shpg. wt., 8 oz 92 C 086. List, \$2.10...

MODEL C. For stacking GB-8, B-8, B-7, or B-6. Gives increased gain on Chs. 2-6 with Model B-6; Chs. 2-6, 11-13 with B-7; Chs. 2-6, 10-13 with B-8 and GB-8. Wt., 1 lb.

"GEOMATIC" TWIN-DRIVEN 2-BAY VHF ANTENNAS



channels. "Fidelity Phasing" efficiently combines the low-band folded dipole operation and high-band 3-element colinear operation without complicated phasing harnesses—assures correct impedance match, too. Preassembled for surprisingly simple installation. Less mast and twin line. Shpg. wt., 10 lbs.

92 CU 568. List, \$41.40. Shipped Truck or Express. NET 24.34

MODEL 8-66-C. For maximum front-to-back ratio on channels 2 and 3, and maximum gain on 2-6. Shpg. wt., 10 lbs. 92 CU 569. List, \$42.40. Shipped Truck or Express. NET. 24.93

- Offer Maximum Gain Per Element
- Solid Rod Construction—10 Times stronger than Tubing
- Complete Instruction Sheets





METROPOLITAN TV-FM ANTENNAS

GOLD-CORODIZED TYPE. 5-elements for TV

—3 for high-band and 2 for low band; plus
an all-directional halo for pickup of FM
stations within 20 miles. No switches, no
couplers needed—2 lead-ins let you enjoy
both sources in different rooms! Less mast
and twin line. Shpg. wt., 3½ lbs.

92 CX 367. List, \$15.95.........NET 6.67

92 CX 368. Non-Corodized. As above, plain
aluminum. 3½ lbs. List, \$12.95. NET. 5.85

SEMI-FRINGE TV-FM ANTENNAS

GOLD-CORODIZED TYPE. 14-elements for TV —10 for high-band and 4 for low-band; combined with a directional 3-element yagi for FM reception within 40-45 miles. One compact antenna makes possible sharp color, black and white pictures—plus the finest in FM sound. Less mast, line. 5 lbs.

92 CU 370. List, \$20.00..... NET 11.76 92 CU 371. Non-Corodized. As above, plain aluminum. 5 lbs. List, \$17.95... NET 10.55

FRINGE-AREA TV-FM ANTENNAS

GOLD-CORODIZED TYPE. 20 twin-driven ele-GOLD-CORODIZED TYPE. 20 twin-driven elements for TV—15 for high-band, 5 for lowband; along with a directional twin-phase 4-element yagi for FM up to 75 miles. Longlasting corodized finish prevents corrosion. Preassembled for easy installation. Less mast and twin line. Wt., 8 lbs.

92 CU 373. List, \$37.50... NET 22.05

92 CU 382. Non-Corodized. As above, plain aluminum. 8 lbs. List, \$33.95... NET 19.96

"GEOMATIC" FRINGE-AREA TV ANTENNAS

High-quality yagi TV antennas for superior black-and-white and color reception in fringe areas. Feature durable, aluminum construction for dependable performance and resistance to weather extremes. Provide maximum gain, sharp directivity pattern, flat frequency response, and high front-to-back ratio.

SINGLE-CHANNEL YAGI VHF TV ANTENNAS

**** MODEL 14. Fourteen element units for super-powered high-band reception. Feature exclusive triple "Diamatic" boom suspension rods that eliminate vibration and boom sway. Feature 15'6" boom. Av. wt., 6 lbs.

Stock No.	Model Chann		List	EACH	
92 CU 387 92 CU 388 92 CU 391	H14-8 H14-9	7 8 9	22.05	12.40	
92 CU 393 92 CU 399 92 CU 400 92 CU 401	H14-11 H14-12	11 12	22.95	13.49	

*** MODELS Y10 AND H10. Ten element units. Av. shpg. wt., 41/4 lbs.

Stock No.	Model	Channel	List	EACH
92 CU 236	Y10-2	2	\$22.20	13.05
92 CU 237	Y10-3	3	21.65	12.73
92 CU 238	Y10-4	4	20.55	12.08
92 CU 240	Y10-5	5	19.55	11.50
92 CU 241	Y10-6	6	18.80	11.05
92 CU 552	H10-7	7	9.95	5.85
92 CU 553	H10-8	8	9.95	5.85
92 CU 554	H10-9	9	9.95	5.85
92 CU 555	H10-10	10		
92 CU 556	H10-11	11	0.05	FOF
92 CU 557	H10-12	12	9.95	5.85
92 CU 558	H10-13	13		

** * MODELS Y5 AND H5. Five element units. Av. shpg. wt., 2 lbs.

Stock No.	Model	Channel	List	EACH
92 CU 242	Y5-2	2	\$11.05	6.50
92 CU 243	Y5-3	3	10.77	6.33
92 CU 244	Y5-4	4	10.42	6.13
92 CU 245	Y5-5	5	9.72	5.71
92 CU 251	Y5-6	6	9.31	5.48
92 CX 560	H5-7	7	6.65	3.91
92 CX 561	H5-8	8	6.65	3.91
92 CX 562	H5-9	9	6.65	3.91
92 CX 563	H5-10	10		
92 CX 564	H5-11	11;	6.65	3.91
92 CX 565	H5-12	12	0.00	3,71
92 CX 566	H5-13	13		

MODEL A STACKING KIT. For all Finney H5 and H10 antennas; H14-713, H10-713, and H6-713. Shpg. wt., 8 oz.

92 C 086. List, \$2.10......NET 1.23

MODEL 8 STACKING KIT. For stacking all Finney Y5 and Y10 single-channel antennas. Shpg. wt., 8 oz. 92 CX 075. List, \$2.60 NET 1.53

MODEL C STACKING KIT. For stacking Model L antennas, below. Wt., 1 lb. 92 CX 087. List, \$3.10..... NET 1.82

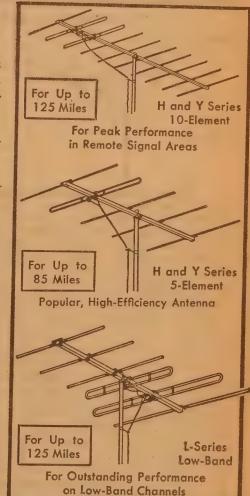
BROADBAND—HIGHBAND ANTENNAS (For Channels 7 through 13)

Area	Stock No.	Model	Boom	Elements	Wt.	List	EACH
***	92 CU 402 92 CU 559 92 CX 567	H10-713	15'6" 6'11" 4'10"	14 10 6	6 lbs. 4 ³ / ₈ lbs. 2 ³ / ₄ lbs.	\$24.95 12.95 8.75	14.67 7.61 5.14

MODEL L. High gain, sharp directivity and high front-to-back ratio are featured in these "customized" antennas. Designed for outstanding deep-fringe reception on the low band channels—Model L-26 covers the entire low band; all others cover specific portions. Have preassembled "snap-out" elements; heavy, square aluminum boom. For higher gain, stack with Model C Kit, above. Less mast and 300-ohm line. Av. shpg. wt., 81/2 lbs.

*** "GEOMATIC" LOW-BAND ANTENNAS

Stock No.	Model	Channels
92 CZ 283	L-26	2-6
92 CZ 284	L-25	2-5
92 CZ 285	L-24	2-4
92 CZ 286	L-36	3-6
92 CZ 287	L-35	3-5
92 CZ 288	L-46	4-6
92 CZ 289	L-45	4 and 5
		9 4 # 4

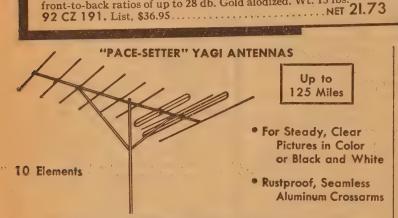


You Can Order Your TV Antenna and Accessories on Allied's Credit Fund Plan NO MONEY DOWN

JFD VHF TV Antennas—TV Signal Booster-

JFD ANTENNAS SHRINK THE MILES—FLATTEN THE MOUNTAINS





Provide very high gain and sharp directivity for maximum reception in deep fringe areas. Ten elements on a full length, 1" O.D. crossarm deliver over 11½ db gain—52% more signal gain than conventional 5-element type yagis. Each antenna is designed for best performance on one channel. Y-type boom brace supplied with low-band antennas (for channels 2 to 6), to give additional support. "AAA Gold-Alodized" to resist effects of weather. Preassembled for surprisingly easy installation. Less mast and 300-ohm twin line. Av. shpg. wt., 9 lbs.

		Channel	List	EACH	No.	Model	Channel	List	EACH
92 CZ 309 92 CZ 310 92 CZ 311	10Z3	2 3 4		13.47	92 CZ 316 92 CZ 317 92 CZ 318	10Z9	8 9 10	9.50	5.59
92 CZ 313 92 CZ 314 92 CZ 315	10Z6	.5 € .7	21.25 20.85 9.50	12.25	92 CZ 320 92 CZ 321 92 CZ 328	10Z12	11 12 13	9.50	5.59

"PACE-SETTER" STACKING HARNESSES

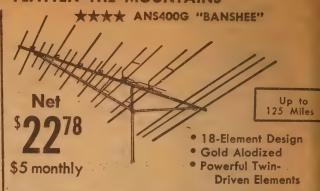
Matching harnesses for stacking any of the single channel, 10-element yagi antennas listed above, for even greater signal gain—needed for distant stations and hilly areas. Gold-alodized. Av. shpg. wt., ½ lb.

No.	Model	Channel	EACH	No.	Model	Channel	EACH
92 CX 405 92 CX 407	YT2G YT3G	2 3	1.03	92 CX 410 92 CX 411	YT5G YTG6	5 6	1.03
92 CX 408	YT4G	4		92 CX 412	YT713G	7-13	.73

"AAA GOLD ALODIZED"

"AAA GOLD ALODIZED"

JFD's "Gold Alodized" antennas are Attractive, Anti-Corrosive, and Alodine Treated! Keeps your antenna looking like new—working like new. The process consists of immersing the antenna in a gleaming golden electro-chemical both that actually becomes a permanent part of the aluminum. This coating protects the antenna by preventing corrosion or discoloration from atmospheric gases, salt air, dust and soot, and wind or ice. And, this lustrous gold alodizing will never flake, peel or chip—it is as durable as the aluminum to which it is bonded . . . electrically conductive for maximum signal transfer for terminals . . . assures best antenna performance. best antenna performance.



Engineered to bring sharp, clear pictures to deep-fringe areas Twin-driven elements, precision cut and spaced directors an reflectors extend high-gain response across VHF band. In creased sensitivity obtained through use of loading coils of the director elements. Low silhouette offers little wind resistance—gold alodized finish prevents corrosion. Two braces of "aluminum tubing solidly support 1" square boom. Driver elements are rugged 1" and 3%" dia. tubing. Preassembled Less mast, lead-in. Shpg. wt., 9 lbs.

★★★★ MODEL ANS300G "SUPER BLITZ BANSHEE"

15 Elements—Up to 125 Miles—Gold Alodized—Low Silhouett High performance antenna employing efficient multi-function element design. Features twin driven elements in a super sensitive broad-band array. Includes two 1" diameter brace for support. Very simple installation. Less mast and 300-ohn twin line. Shpg. wt., 9 lbs.
92 CZ 413. List, \$35,27.

** MODEL AN300G "BLITZ BANSHEE"

9 Elements—Up to 85'Miles—Gold Alodized—Low Silhouette Efficient VHF antenna similar to above. Driven elements are of 1" round, seamless tubing; have capped ends to prevent wind whistling. Less mast, twin line. Shpg. wt., 9 lbs. 92 CZ 416. List, \$24.30. NET 4.29

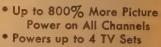
★ LOW-COST VHF CONICAL WINDOW ANTENNA



MODEL G119G—For up to 40 Miles. Low-cost, all-aluminum gold alodized conical window antenna for strong-signal areas. Ideal for apartment buildings, hotels, etc., or wherever roof-top installations are not practical, but where the greater signal gathering power of an outdoor antenna is desired. Provides sharp viewing on all VHF channels—2 through 13. Extremely simple to install. Easily fits on the outer frames of most windows—adjustable from 32" to 42" in width. Antenna can be adjusted to proper position for best reception. Comes complete with all necessary mounting hardware—ready for quick, convenient installation. Less 300-ohm twin line for connection to TV set. Shpg. wt., 7 lbs.

NEW TRANSISTORIZED TV SIGNAL BOOSTER







• Powers up to 4 TV Sets

MODEL INT103. Now you can
convert your existing Yagi, conical and any other antenna type
into a transistorized antennadistribution system. Delivers
brilliant pictures to black and
white, or color sets. Transistorized amplifier, TNT25 (Fig. A),
mounts directly on antenna to
eliminate line-loss and noise
pickup. AC powered supply,
TNT85 (Fig. B), connects to
house current for single or multiple set operation. With mounting hardware; less antenna. For ing hardware; less antenna. For 110-120 v., 60 cycle AC. Shpg. wt., 1½ lbs.

91 C 277. List, \$36.95....NET 24.26

d All-Channel's TV Antennas and Kits



TRANSLATOR UHF ANTENNAS

**MODEL TR1212—Up to 85 Miles, 12-bay UHF antenna designed especially for excellent reception over long distances. Sharply directive and highly sensitive on UHF channels 70-83, Average 14 db gain is obtained from 12 horizontally and vertically wide-spaced and phased "cardioid" dipoles working off an oversized reflector. Features extremely narrow forward lobe—no side or rear lobes. Reflector also shields antenna extremely narrow forward lobe—no side or rear lobes. Reflector also shields antenna from undesirable rear signal and noise pick-up—eliminates "ghosts." Has rigidly constructed galvanized wire screen with precision-formed 1/8" solid aluminum dipoles. Unitized preassembled construction for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs. 92 CZ 172. List, \$24.95. NET......14.67

**MODEL 1206—Up to 40 Miles. Similar to UHF antenna Model TR1212 above, but has 6 wide-spaced and phased "cardioid" dipoles working off an oversized reflector. Provides an average signal gain of 12 db-brings in sharper, clearer pictures for your viewing pleasure. Less mast and 300-ohm twin line. Shpg. wt., 7 lbs. ..7.03 92 CU 187. List, \$11.95. NET.

UHF AND VHF-UHF ANTENNAS

★ MODEL UHF410G—40 Miles. UHF unit with extremely sharp directivity. High front/back and front/side ratio cuts down interference and "ghosts." Twin-angled, multi-grid reflectors trap maximum signal strength, concentrating it in-phase on bowtie directed. Solid aluminum gold alodized tie dipole. Solid aluminum, gold alodized finished. Easily installed. Less mast, line.

4.91 92 CX 403. List, \$8.35. NET... * MODEL UHF208-60 Miles. 8-bay, UHF

bowtie antenna for semi-fringe area reception. Wire mesh reflector and matched elements provide optimum gain on all channels. Rigidly constructed; solid aluminum rods and galvanized screen. Preassembled for easy installation. Less mast and twin line. Shpg. wt., 8 lbs.

★★ MODEL UHF212—Up to 94 Miles, 12-bay UHF bowtie antenna for fringe area reception. Super-sensitive "cardioid" dipole design provides extremely high gain, averaging 15 db, over all UHF channels, 14 through 83. Screen is engineered for efficient shielding of conical sections—wire grid offers higher signal-to-noise ratios and noise rejection. Provides sharp directivity; greatly reduces interference and "ghosts." Electronically welded vibration-less assembly is preassembled for swift, simplified installation. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs.
92 CU 551. List, \$33.50. NET.....19.70

* MODEL UHF202—Up to 40 Miles. 4-bay vertically stacked UHF bowtie antenna for metropolitan and suburban areas. Gives high gain averaging 8 db on all channels-reduces snow and reflections. "Custom-Channel" calibrator peaks individual channels for best response. Precision spaced elements and phasing harness for maximum gain. Galvanized grid wire screen with 1/8" O.D. solid aluminum rods. Preassembled for O.D. solid aluminum rods. Preassembled for fast, convenient installation. Less mast and 300-ohm twin line. Shpg. wt., 6 lbs. 92 CU 151. List, \$8.95. NET.......5.26

ALL-CHANNEL "REMBRANDT" ANTENNA KITS

- All-Direction Pickup
- Handy Switch Automatically **Connects Proper Element**
- Covers Channels 2-13
- Made of Sturdy Aluminum
- Preassembled Elements— Quick, Easy Installation



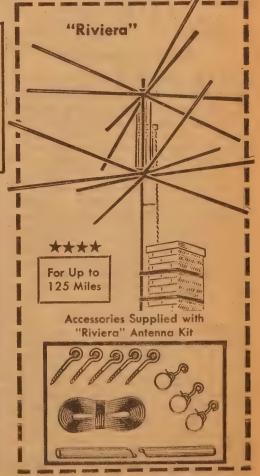
Twelve-position switch—included with famous All-Channel "Riviera" and "Atlas" antennas, listed blow —selects proper antenna elements for clearest picture from any direction without having to rotate antenna assembly.

**** "RIVIERA" VHF KIT

All-directional, 2-bay antenna complete with all accessories for easy installation. Sixteen

"RIVIERA" ANTENNA AND SWITCH. As above, but less mast and all installation accessories. Shpg. wt., 10 lbs.
92 CU 351. \$5 Monthly. NET 19.85

*** 2-BAY "ATLAS" VHF KIT



431 ALLIED

TACO T-BIRD VHF TV ANTENNAS For up G-707-8 to 150 **** Miles

★★★★MODEL G-707-8. Eight specially designed elements provide up to 12½ db signal gain on channels 2 to 13. Gold anodized surface assures maximum protection against corrosion and weathering. Shpg. wt., 12½ lbs.

92 CZ 199. List, \$65.05. NET. 38.25

**** MODEL 707-8-150 Miles. Same as above, but non-anodized. Shpg. wt., 121/2 lbs.

92 CZ 200. List, \$57.70. NET. . 33.93

MODEL G-707-5—35-Miles. Gold anodized "T-Bird" antenna. Like Model G707-8, but has 5 elements and single crossarm. Shpg. wt., 6½ lbs.

19.73

***MODEL 707-5—85 Miles. Like G707-5, but non-anodized. Wt., 6½ lbs. 92 CZ 203. List, \$28.30. NET....

Designed for Increased Sensitivity, **Sharp Directivity**

For Black and White or Color TV

"T-Bird" TV antennas provide extremely high gain, sharp directivity, high front-to-back ratios and 12½ db gain for bright, clear pictures. Minimize interference and permit exeptionally good fringe area reception on channels 2 to 13. Extremely flat response across all channels assures full picture definition—ideal for use with color TV. Models G707-8 and 707-8 have double trussed crossarm for extra mechanical strength. Less mast and 300-ohm twin line. Less mast and 300-ohm twin line.

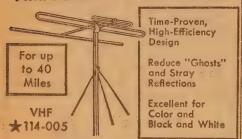
****MODEL G-707-6—125 Miles. Same as Model G707-8 (left), but has 6 elements and single crossarm construction. Gold anodized surface protects antenna against weathering and corrosion. Shpg. wt., 9 lbs.

92 CZ 204. List, \$46.15. NET. 27.14

****MODEL 707-6—125 Miles. Same as above, but has non-anodized surface. Shpg. wt., 9 lbs.
92 CZ 206. List, \$39.85. NET. 23.43

.....16.64

AMPHENOL TV ANTENNAS



INLINE VHF ANTENNAS

*MODEL 114-005. For all VHF channels. Ideal for metropolitan and suburban use. Unusually broad frequency response. Uni-directional pattern and excellent impedance match on high and low-bands reduces stray reflections and "ghosts." Antenna elements constructed of sturdy aluminum tubing. Mast is heavy-gauge steel. Includes one 5'x3/" mast, guy ring, mounting bracket, hardware, stand-off insulators, 75 feet of high-quality 300-ohm twin line. Shpg. wt., 7 lbs. Truck or Express only.

*MODEL 114-009. Same antenna as 114-005 above, but less 300-ohm twin line. Shpg. wt., 6 lbs. Truck or Express only.

92 CU 301. List, \$19.25. NET.

*MODEL 114-040. Same as 114-005 above, less mast, twin line and stand-off insulators. Shpg. wt., 5 lbs. Truck or Express.

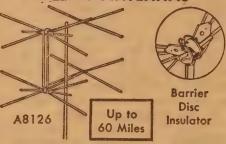
92 CU 303. List, \$15.75. NET......9.45

INLINE STACKED ARRAY

**MODEL 114-314—60 Miles. Ruggedly constructed, 2-bay stacked antenna. Consists of a top and bottom bay properly phased for all VHF channels. Each bay consists of 2 folded dipoles and a low-band reflector element, and is similar in construction and performance to Model 114-005 in line antenna shown above. Low-band folded dipole of each bay acts as reflector for highband dipole when receiving channels 7-13. Less 300-ohm line and 10-ft. mast. Shpg. wt., 12 lbs. Truck or Express.

92 CU 302. List. \$32.50. NET. 19.50 92 CU 302. List, \$32.50. NET...... 19.50

TELCO "IMPERIAL" VHF TV ANTENNAS



- Excellent Directivity and Sensitivity
- Resist Salt, Moisture, Soot, etc.
- Provide High Gain on All VHF Channels

MODEL A8126. Extremely popular "Imperial" 2-bay VHF conical antenna for all TV channels. Advanced design provides very high gain on all channels in fringe and high signal strength areas under all kinds of weather conditions. Has excellent directivity and sensitivity—provides unusually clear ity and sensitivity—provides unusually clear picture reception. Employs weather-proofed terminal structure.

The "Imperial" can be used in sea coast or heavy industrial areas. Features a barrier disc type insulator with 2" of air space between the terminals. Salt, moisture, soot, corrosion, etc., will not affect the gain or picture quality. Contact surfaces and terminals will never rust or oxidize. Stainless steel, front-end hardware prevents signal losses through corrosion.

*MODEL A8124—40 Miles. Same as above, but single-bay. Shpg. wt., 4 lbs. 92 CU 350. NET.

MODEL A8126-1 STACKING KIT. For stacking two Model A8124 single-bay antennas. With all hardware. Shpg. wt., 1 lb.

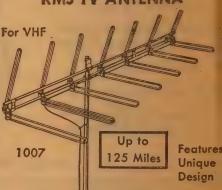
TACO UHF TRANSLATOR ANTENNA 3088T 3088T Stacked

 Easy-to-Install; Preassembled Uses Solid Rod Phasing Lines

★ MODEL 3088T—40 Miles. Horizontally stacked, eight-bay bow-tie designed for ETV and translator frequencies. Large ETV and translator frequencies. Large reflector screen increases capture area and front to back ratio for peak performance. Reinforced screen edge and rigid element positioning for high stability. Provides 18.5 db gain on translator channels 70 to 83. With stacking line, hardware, instructions; less mast and twin line. 7 lbs. 92 CZ 207. NET..

**MODEL 3088T STACKED—60 Miles.
Two Model 3088T eight-bay UHF
translator antennas, described above,
but stacked vertically for an additional 3 to 5-db increase in signal pick-up.
Total gain is from 21.5 to 23.5 db.
Shps. wt., 14 lbs.

RMS TV ANTENNA



*** ** MODEL 1007. This "Wavebooster" VHF antenna utilizes 7 folded dipole elements for increased signal gain and greater mechanical stability. Provides excellent color and black and white reception on all channels from 2 to 13. Elements are designed for decreasing impedance from feed point to front end—each element receives an equal amount of current for maximum total gain. High front-to-back ratio and close line impedance match provide sharp, clear pictures—very effective in minimizing ghosts and interference. ghosts and interference.

Has "snap-lock" design for quick, easy installation. Unique, "quadro-grip" U-bolt assembly secures antenna to mast 4 times—prevents turning and slipping. Less mast and 300-ohm line. Shpg. wt., 16 lbs. 92 CZ 197. List, \$44.30. NET..... 26.05

** ** MODEL 1005—85 Miles. Similar to 1007 above, but 5 dipole elements. 12 lbs. 92 CZ 198. List, \$31.40. NET......18.46

Knight, Finney and Amphenol FM Antennas

FINNEY FM ANTENNAS

KNIGHT FM ANTENNA KITS



ALL-DIRECTIONAL KNIGHT FM KIT

A top-quality FM antenna kit at a money-saving price. Two folded dipoles mounted at right angles to each other provide uni-orm gain from all directions. Eliminates need for rotator. Excellent response across the entire FM band. Elements constructed of heavy walled, extruded aluminum for maximum weather resistance.

Complete kit includes: rugged 5-ft. mast; 50 feet of 300-ohm twin line; sturdy, universal mounting base; I mast stand-off insulator; and other necessary hardware to one low price. Instructions included for asy assembly. Shpg. wt., 71/4 lbs. 72 CU 583..... ONLY 6.17

P2 CU 590. Antenna Only. As above, but ess accessories. Shpg. wt., 3 lbs. ONLY **4.35**

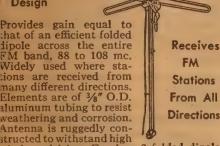
KNIGHT M STEREO "S" ANTENNA KIT

Mounts Outdoors or Indoors

Improves FM Reception
Gold-corodized, corrosion
resistant antenna provides
excellent reception up to 25
niles from stations—regardless of direction. Easily
nstalled in minutes; mounts
on any existing TV mast.
Compactness makes it perect for attic or closet installations. Kit includes: 50-ft. of 300 ohm lead-in; 4 screweve standoff insulators; mast standoff; diections. Shpg. wt., 3½ lbs.
ONLY 3.25
P2 CX 020. Antenna Only. As above, but
ess accessories. Shpg. wt., 3 lbs. ONLY 2.10 Improves FM Reception

AMPHENOL 114-010 FM ANTENNA KIT

Dipole Design



structed to withstand high winds and icing. Employs 2 folded dipoles mounted at right angles to achieve an essentially circular pickup pattern. Quarter wave phasing stub precisely matches both elements to 300-ohm twin line. Includes convenient, universal, swivel-type mounting base bracket for simplified mounting of antenna on flat or sloping roofs; 75 feet of 300-ohm twin line; all hardware, and sturdy 5-ft.x³/₄" O.D. mast. Wt., 7 lbs.

MODEL FM-5 ANTENNA

• 10 Elements Provide Maximum Gain Over Entire FM Band

Gold-Corodized Non-Corrosive Finish

Superb 10-element FM antenna for peak reception in remote and weak signal areas. Features twin driven elements and precisely-spaced directors for exceptionally high gain across the entire FM band from 88 to 108 mc. Assures best possible reception of both monophonic and multiplexed FM signals. Gold-corodized finish on all aluminum parts resists weathering and assures retention of priginal characteristics. Heavy-duty square resists weathering and assures retention of original characteristics. Heavy-duty, square boom with suspension-type bracing provides rigid support. Boom length, 10 feet. All elements are sleeve reinforced. Elements lock into open position in "snap-lock" brackets. Self-aligning brackets and double wall reinforced aluminum elements—prewall reinforced aluminum elements—pre-assembled for fast, easy installation. Less mast and 300-ohm twin lead. Shpg. wt., 91 CZ 329. List, \$36.35..... NET 21.37

MODEL FM-4 ANTENNA

• 6-Element Yagi Design—High Front-to-Back Ratio

Ideal for FM Multiplex Reception

Deluxe 6-element FM antenna. Twin driven Deluxe 6-element FM antenna. Twin driven elements with impedance control "T" match stubs, offer high gain across entire FM band, 88 to 108 mc. Just the thing for excellent monophonic and stereophonic multiplexed FM signal reception! "Geomatic" design provides outstanding front-to-back ratio. Sturdy, heavy-duty square aluminum boom, 7', 9" long. Double wall reinforced all aluminum elements guarantee long-life and like-new performance. "Lock-Tite-No-Tilt" saddle mounting and "box girder" snap out self-aligning brackets are completely preassembled—ready for quick installation. Less mast and 300-ohm twin lead. Shpg. wt., 6½ lbs.
92 CZ 280. List, \$24.90......NET 14.64

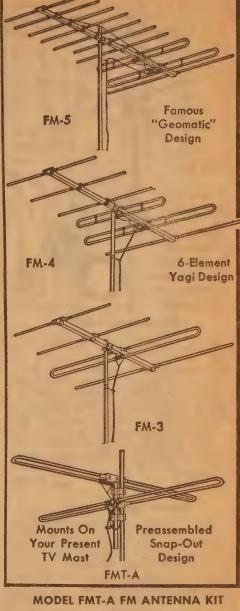
MODEL FM-3 ANTENNA

4-Element Yagi for Excellent Gain

Corrosion-Resistant Aluminum

An extremely effective broad band fringe-area FM antenna at a very moderate cost. Features a highly directive 4-element yagi design for outstanding gain on the FM band, 88 to 108 mc. Greatly improves the main FM signal as well as the sub-carrier signal of stereo FM multiplexed broadcasts. All-aluminum construction with square boom, 5′, 10″ in length. Folded dipole driven element for closer impedance matching and maximum energy transfer. Double wall re-inforced elements have snap-out brackets. Elements lock in open position—preassem-bled for surprisingly easy installation. Less mast and 300-ohm twin lead. Shpg. wt., 5 lbs. An extremely effective broad band fringe-

92 CU 281. List, \$13.00..... NET 7.64 FMS STACKING KIT. For stacking two FM-3, FM-4 or FM-5 antennas described above, for extra gain. Shpg. wt., 1 lb. 92 CX 597. List, \$3.35........NET 1.97



Greatly Improves FM Reception

Has All-Directional Pickup Pattern

Features a ruggedly constructed, pre-assembled turnstile-type antenna that requires no rotation. Supplied with special bracket for simple installation on your present TV mast—there's no need for an additional mast. The two antenna elements are accurately matched with a special quarter-wave phasing stub for optimum gain and all-direction radiation pick-up pattern Provides strong radiation pick-up pattern. Provides strong reception over the entire FM band. Kit includes: FM antenna, 50-ft. twin line, two mast insulators, 3 screw-in insulators, mounting bracket. Shpg. wt., 6 lbs. . NET 8.53

91 CX 330. List, \$14.50...

SAVE ON FAMOUS-NAME FEATURE VALUE FM ANTENNA -

Increases Gain of FM Signal—Even Multiplex

Distortion-Free Reception Up to 50 Miles



Popular TV and FM Antennas_____



AFM-100G-75 MILES

A sensitive, all-direction FM antenna kit-A sensitive, all-direction FM antenna kit—at an exceptionally low price. "Stereo Cone" turnstile design insures optimum signal strength from stations in all directions—greatly improves FM multiplex reception. Gold alodized aluminum weather-resistant construction. Completely preassembled for easy installation. Kit includes: antenna, 5-foot aluminum mast, steel guy ring and wire, universal base mount for wall or roof, 4 standoffs, 50 feet of 300-ohm line, and all hardware—everything you need for a professional quality installation! Shpg. 1, 51/2 lbs.

91 CX 987. List, \$15.95..... NET 9.38

AFM-175G-75 MILES

As above, but for mounting all-directional antenna on existing TV antenna mast. With gold alodized turnstile antenna and supporting mast, '2 sets of U bolts, brackets, 50' of 300-ohm twin line, 4 stand-offs, and all necessary mounting hardware for surprisingly simple installation. 4 lbs.

91 CX 219. List, \$13.95...... NET 8.20



Single-bay, 6-element yagi for top FM performance in weak signal areas. Unidirectional design. High F/B ratio. Up to 9 db gain. Completely assembled. Elements swing out—lock in place. Less mast, 300-ohm twin line. Shpg. wt., 7 lbs.

92 CZ 546. List, \$21.20. NET 12.72

610 10-ELEMENT FM ANTENNA

Single-bay, 10-element yagi for long-distance FM reception. 8 to 10 db gain. Sharp directivity—extremely high F/B ratio. Simplified installa-tion, arms swing out—lock in place. Less mast, 300-ohm twin line. Shpg. wt., 10½ lbs. 92 CZ 547. List, \$30.70. NET 18.42

646 STACKING KIT. Phasing line, insulators, hardware for stacking two 644B or 610 antennas. 1 lb. 92 CX 548. List, \$2.80....NET 1.68





- 12-Position Switch
- 4-Section Arms
- Increased Gain
- Beautiful Finishes



STARLINER ANTENNA

Features a patented internal circuit for increased gain, and provides excellent reception in metropolitan areas. Switch assures sharp, clear pictures on all channels from 2 to 13—aliminates encourses eliminates annoying interference. Four-section, all-brass telescoping arms extend to 102". With 6-ft. of twin line. 14x4x3½". Wt. 2½ lbs.

92 CX 419. Mahogany.

92 CX 423. Walnut.

92 CX 430. Ivory.

List Each, \$9.95. NET EACH 6.95

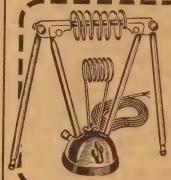
SENTRY ANTENNA Use the top-performance "Sentry" radar-coil indoor antenna for superior sound and picture quality. Designed for UHF and VHF, black and white or color; styled to complement any decor. Telescoping arms extend to 46". Selector switch permits adjustment for optimum reception. 6-ft. line, with soldered lugs. 2½ lbs.

92 CX 436. Mahogany.

92 CX 437. Walnut.

92 CX 438. Ivory.

List Each, \$6.95. NET EACH 4.85

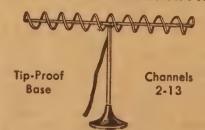


K-G DELTA-BEAM UHF-VHF ANTENNA

- 6-Position Switch
- Tip-Proof Base
- Compact Design
- Easy-to-Install

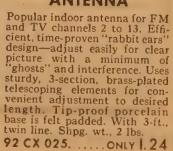
An efficient all-channel indoor antenna providing excellent reception on all VHF channels 2 through 13 and UHF channels 14-83. Six-position switch matches line impedance, tuning antenna to match receiver input. Also has highly effective "ghost" chasing switch. Dipoles are easily adjusted to the length and angle providing reception for the best picture. Has tip-proof brown bakelite base. Size 9" high; each arm extends to 15". Supplied with 6 feet of twin line. Shpg. wt., 2½ lbs.

TRICRAFT VHF ANTENNA KIT

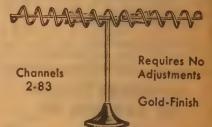


Highly efficient VHF indoor antenna for Highly efficient VHF indoor antenna for bringing in sharp, clear pictures in metropolitan areas. Carefully engineered helix coil, mounted on sturdy, mahogany plastic base. For channels 2-13. Minimizes "snow." "ghosts," and interference. Requires no adjustment. Tip-proof base. Height, 14"; width, 32". Easy to assemble. With 6-ft, of twin lead. Shpg. wt., 2 lbs, 92 CX 126. 92 CX 126..... NET 4.41

KNIGHT VHF ANTENNA



HI-LO UHF-VHF ANTENNAS



MODEL 202. UHF-VHF SPIRAL-TENNA. Popular indoor TV antenna for excellent gain on UHF-VHF bands. Minimizes "ghosts" and interference. Gold finish. Tip-proof base. Height 14"; width 32". With 6-ft. twin line attached. Shpg. wt., 2 lbs. 92 CX 127..... NET 5.85

MODEL 101. VHF. As above, but VHF only 92 CX 118......NET 5.24

FM TWINLINE ANTENNA



Ideal for use where outdoor installation is not practical

Unusually low-cost, folded dipole type antenna designed for FM reception. Ideal as concealed indoor antenna where outdoor antenna installation is not feasible. Simply place under rug, behind hi-fi equipment cabinet—in any out-of-the way location. Consists of 300-ohm twin line with 6-feet of lead-in wire. Shpg., wt, 6 oz. 92 C 019.

JFD INDOOR ANTENNAS

TA-147 VHF-UHF ANTENNA

Features smart styling and outstanding, performance. Has high signal gain; minimizes interfer-ence and glosts. 6ence and ghosts. 6position switch, and
4-section brass dipoles permit adjustment for clearest
picture. Elements
extend to 38".
Weighted base with
felt pad. With twin
line and terminals. Wt., 2 lbs.
92 CX 124......

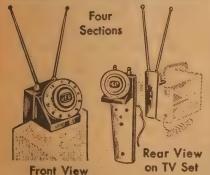


TA-149 UHF ANTENNA

Twin-bowtie dipoles and screen reflector provide excellent recep-tion on channels



"MERLIN" VHF-UHF ANTENNAS

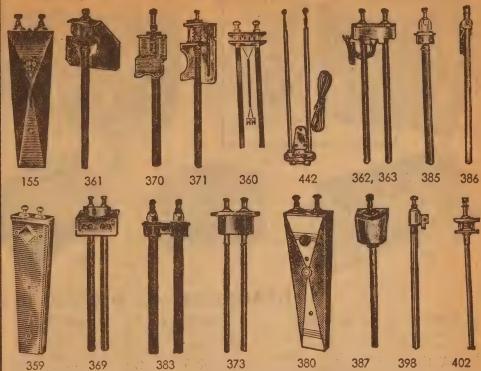


G-C TELCO VHF ANTENNA

Compact, plastic-cased "hide-a-way" antenna. For excellent all-channel metropolitan-area reception. Telescoping elements of durable, nickel-plated brass tub-



JFD PORTABLE TV EXACT-REPLACEMENT ANTENNAS



Allied can supply replacement antennas for most portable TV sets. If not listed below, let us know the Make and Model Number of your set. Av. shpg. wt., $\frac{3}{4}$ lb.

ADMIRAL					
Stock No.	JFD Type	Orig. Mfg. Part No.	NET		
91 C 374	TA155	For all Admiral 1956-57 sets	2.54		
91 C 166	TA361	69C220-1 and 69C220-5	3.18		
91 C 167 91 C 168	TA370 TA371	69C238-1	3.67		
		MATERIAL STATES			

	EMERSON	
91	C 376 TA360 471090	4.50
91	C 376 TA360 471090 TA442 471003; 471069; 471076; 471146	2.16

	GENERAL ELECTRIC						
			For 1956-57 sets sold less antennas P125J438-1	2.16			
91	C 169	TA362	P125J590-2 P125J590-1 WT83X16-19-28-29	5.73			
71	0 200	1 2 2 2 0 0 7 1	** * * * * * * * * * * * * * * * * * * *	1 110			

91	CC	169	TA362 TA363	P125J438-1 P125J590-2 P125J590-1 WT83X16-19-28-29	4.50 5.73 5.73 4.50
				PHILCO	
91	C	170	ITA385	176-10734-3:	

o i	Č	182 TA363 P125J590-1 200 TA387 WT83X16-19-28-29	5.73 4.50
		PHILCO	
		170 TA385 76-10734-3; 76-10734-5	3.67
91	C	174 TA386 76-11538-1	3.18

MAGNAVOY					
	M	AUNATUA	No.		
Stock No.	JFD Type	Orig. Mfg. Part No.	NET		
91 C 375		1957-58 17" sets 1959 17" and 21" sets	2.65		
	A	AOTOROLA			
91 C 375	TA359	1V746989 and TK76	2.65		
		RCA			
91 C 175	TA369	973447 962344-1 thru 10 109-139	2.65 4.85 2.86		
***************************************	SILV	ERTONE-SEARS			
91 C 376	TA360	82-116-0 82-127-0	2.65 4.50		
91 6 176	1A383	82-137-0; 82-139-0; 82-164-0	5.31		
WESTINGHOUSE					
91 C 374	TA155	1956 and 1957 sets	2.54		
ZENITH					
91 C 181	TA380	S46769 S43260 and S43280 S50123	4.85 3.67 4.09		

NEW RCA "BRITE SITE" TV AND FM ANTENNA



Covers Entire VHF-TV and FM Bands

Can Be Completely Concealed

Printed Circuit for Simple Installation



Economical TV-FM indoor antenna that produces excellent results when used inNET 2.45

Blonder-Tongue TV-FM Amplifiers, Distribution Systems.



TV-FM BOOSTERS AND DISTRIBUTION SYSTEMS

MODEL HAB VHF AMPLIFIER

25-db Gain Channels 2-13 and FM Band

• 25-db Gain Channels 2-13 and FM Band
• Use in the Home, Apartments, Hotels

A Efficient, high-gain VHF television and FM amplifier. Provides more than 25 db gain on all channels from 2 to 13, and on the FM band. Ideal as a preamplifier for home or small master TV antenna systems. Permits brighter, sharper pictures and increases number of TV stations set can pick up. Uses one 6DJ8 and two 6EJ7 tubes to provide highest possible signal-to-noise ratio provide highest possible signal-to-noise ratio with maximum reliability and long life.

Features stripless 300-ohm terminals and 75-ohm solderless coax connectors for input and output-can use 300-ohm twin line or 72-ohm coaxial cable.

In compact, sturdy, ventilated metal cabinet. $6x5\frac{3}{4}x4\frac{3}{8}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., $4\frac{1}{2}$ lbs. 93 C 078, List, \$72.75..... NET 42.58

MLA-B VHF TV SIGNAL AMPLIFIER

B The "Masterline" VHF TV signal amplifier. Provides an effective signal boost of not less then 40 db. Assures maximum output of 2 volts rms on each band—flat within .75 db. May be installed in coax line going to single TV set, or used with antenna distribution system in installations feeding 100 or more TV sets from a single antenna. Units may be cascaded when extremely long transmission lines are used.

Offers maximum fidelity for color TV as well as black-and-white sets. Gain is adjustable on high and low bands. Response flat within ±.5 db over any 6 mc channel.

Cascode circuits assure minimum noise level. 75 ohm coax input and output connectors. 7 tubes. 9x6x5" deep. Perforated gray metal cabinet. For 110-120 volts, 60 cycle AC. Shpg. wt., 9 lbs.

92 C 090. List, \$142.50.....NET 83.79

BT-3 VHF TV-FM AMPLIFIER

All-transistor VHF TV-FM amplifier.

Broadband circuit design for use with color as well as black-and-white TV. Highgain, low-noise amplification makes it ideal gain, low-noise amplification makes it ideal as preamp in large master systems, or as amplifier in smaller systems. Two inputs permit separate high and low band antennas; also has combined high and low band inputs. Has monitor jack for system checking without interrupting service. Solderless 75-ohm coax connectors. 15-18 db low-band gain; 19 db on high band. Output: 0.7 v. with 1% cross modulation (total of both bands). 4x9x4½". For 110-120 v., 60 cycle AC; also has input socket for 22 volt battery supply. Shpg. wt., 2¾ lbs. 93 C 358. List, \$79.95. NET 48.93

"PACEMAKER" TV-FM AMPLIFIER

"PACEMAKER" TV-FM AMPLIFIER

Superior-quality broadband amplifier for use with TV and FM sets—brings very weak signals up to full reception level. Minimum gain is a full 35 db for all TV channels 2 through 13, and 30 db on the FM band. Has separate antenna inputs for high TV band, FM, and low TV band; jumper is provided to permit combined high-low-FM input for use with all-hand antennas input for use with all-band antennas

Tubes and components are conservatively operated for long, trouble-free use. Noise is better than 6 db down for low-band and FM; 7 db down for the high band. Output to TV set is 2 volts (total of all carriers) on low band and FM; 2 volts on high band. Amplifier is well ventilated, completely covered and tamper-proof. Coaxial input and output connections. Size, 43/4x12x4". For operation from 115-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

91 C 255. List, \$102.10..... NET 63.45

DA8-B VHF DISTRIBUTION SYSTEM

A versatile, combination booster and isolation-distribution system for use with up to 8 TV sets. Features exclusive lownoise all-triode circuitry. Ideal for use in small apartment buildings, hotels, motels, etc. Permits operating up to 8 TV sets from a single antenna. 22 db minimum isolation between outputs. Provides 10 db gain to each TV set to assure full-strength signals. System overload is prevented through a 10-1 gain control range. Has inputs for 75-or 300-ohm line. Eight outputs accommodate 75- or 300-ohm line; one of these outputs may be used to feed another DA8-B to permit hook-up of additional TV sets. Unit includes power supply, terminating resistors A versatile, combination booster and isoincludes power supply, terminating resistors and grounding clamp. Screw terminals permit fast installation. 5x9x5½". For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.

91 C 248. List, \$99.50.....NET 58.80

NEW IT-4 TV-FM BOOSTER-COUPLER

New, improved transistorized TV-FM booster for the home. Delivers amplified (3 to 6 times stronger), noise-free signals to up to 4 TV and/or FM sets on the same antenna, All-transistor circuitry provides low power drain, minimum maintenance. Isolated outputs prevent interaction of sets, provides true 300-ohm impedance to each set. Input impedance is matched to antenna impedance—no separate balun needed. Noise figure: minimum of 4 db. Easy to in-Noise ingure: minimum of 4 db. Easy to install, stripless terminals make solid electrical connection with the turn of a screw. Needs no adjustment. Size, 1½x6½x3½". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 1 lb.

91 C 261. List, \$33.00......NET 19.40

B24-C TV-FM BOOSTER-COUPLER

Highly efficient booster-coupler. Permits using a single TV antenna with up to 4 TV or FM sets. Provides excellent isolation between sets for minimum interaction. Boosts signal strength of VHF stations up to 10 db when using just one set, up to 5 db with two sets; gives unity gain with four. Wide response assures excellent color TV and FM performance. Low-noise broadband circuit requires no tuning. Quickly, easily installed—simply attach to antenna terminals. Compact chassis may be installed at rear of one of sets. 300-ohm input and output. 33/4x6/4x2/2°. For 110-120 v., 60 cycle AC. Wt., 1/2 lbs. 92 C 342. List, \$24.95..... NET 15.63

MODEL BTA TV-FM BOOSTER

signed to deliver sharper, clearer TV pictures and improve FM reception. This extremely compact unit boosts TV signals 7 to 9-db when used with a single set. Gain on FM band, 4 to 8 db. A 2 or 4-set coupler is required when used with more than one set. Has on-off switch, simple stripless screw-driver connections for quick hookup. Input and output impedance, 300 ohms. Uses single 6FY5/6FQ5 tube. Size, 2½x6½x3¾″. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs. 93 C 356. List, \$15.70...... NET 10.73

TV CABLE TAPOFF CONNECTORS



MT-11 MIT-4

MODEL MT-11 TV CABLE TAPOFF. Weather-proof, spliceless tap for use with RG-11/U cable. 12, 17 or 23 db isolation. Installation tool. 75-ohm coax output. 6 oz.

93 C 112. List, \$5.60.... . . NET 3.28

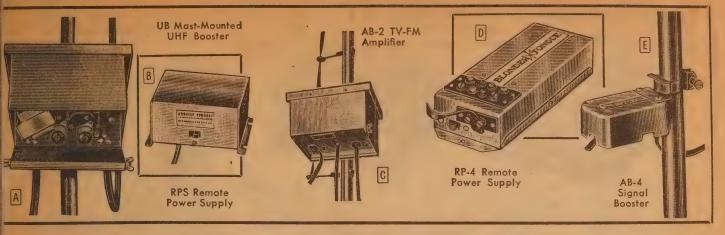
MODEL MIT-4 COAXIAL TAPOFF. Offers four 75-ohm coax outputs from 75-ohm thru line. Provides 17 db isolation. Thru loss 0.35 db per output used. 4½x3½x2½". Wt., 1½ lbs.

91 C 263. List, \$28.00......NET 17.15

MODEL P-59S MALE CONNECTOR. For use with "Masterline" Model MLA-B signal amplifier. Fits RG-59/U cable. 3 oz. 91 C 074. List, \$1.70.....NET EACH .98

MODEL P-11S CONNECTOR. As above, but for RG-11/U coax cable. 91 C 075. List, \$1.70....NET EACH .98

Blonder-Tongue TV-FM Boosters, Converters, Accessories



MAST-MOUNTED TV-FM BOOSTER-AMPLIFIERS

NEW MODEL UB UHF BOOSTER

14-db Gain, Channels 70 Through 83 Uses Two UHF Frame-Grid Tubes Long Life Unique antenna-mounted broadband UHF TV booster. Especially degned for use in translator and MPATI Midwest Program on Airborne Television

nstruction) areas to improve reception of hannels 70 through 83. Provides at least

Consists of two individual units—the UB Broadband Amplifier and the RPS Remote Cower Supply. UB amplifier is mounted at the TV antenna to eliminate line noise. Itilizes two UHF frame-grid tubes for high ain, low noise and long life.

RPS remote power supply delivers 24 volts DC to the amplifier through the transmision line. Automatic-shutoff feature may be used with any set drawing between 135 nd 500 watts. Has 300-ohm input and out-out impedance, "no-strip" terminals. Size: mp., 43/8x7x511/6"; supply, 25/8x5x4". For 10-120 v., 60 cycle AC. 51/2 lbs. 71 C 264. List, \$88.00..... NET 58.31

JB "STRATO-BOOSTER." As above, but provides 20-db gain on UHF Channels 72 hrough 76 only. Wt., 5½ lbs.

71 C 265. List, \$103.75......NET 61.00

MODEL AB-2 VHF BOOSTER

C Antenna mounting booster amplifies all VHF stations (channels 2-13) up to 12 db. Weatherproof amplifier may be located db. Weatherproof ampliner may be located up to 500 feet from remote control at TV receiver. Installation at antenna permits amplification of signal with no increase in line noise picked up on lead in. Power is delivered to booster by 300-ohm twin line—no separate line required. 6DJ8 provides highest possible signal-to-noise ratio with maximum markets. est possible signal-to-noise ratio with maximum reliability. Operation is automatic—booster turns on and off at remote control. 300-ohm input and output. Easy to install. Amplifier, 67%x37%x4½". Remote control, 5x27%x33%". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

92 C 545. List, \$53.95......NET 31.75

AB-3 DELUXE TV-FM AMPLIFIER

Provides 25 db gain on VHF TV and FM bands. Designed to let you locate amplifier a full mile from power supply (when open lead is used). 300-ohm input, 300 and 75-ohm outputs. Automatic on-off control, Lead in supplies power to amplifier. control. Lead-in supplies power to amplifier. Amp., 73/4x53/8x51/4"; power supply, 63/4x 33/4x41/4". For 110-120 VAC. 7 lbs. 93 C 359. List, \$104.95..... NET 63.21

AB-4 TRANSISTORIZED BOOSTER

- Choice of Battery or AC Operation
- Reliable High Gain, Low Noise Circuit

All-transistor VHF TV-FM booster-coupler. Provides brilliant reception. Amplifies antenna signal up to 5 times. Features high signal-to-noise ratio for best no-snow reception. Extremely light, compact design—mast need be no stronger than required to support antenna alone. Maintenance is virtually eliminated—no tubes to burn out. Remote power supply (Fig. D) runs on 4 low-cost flashlight cells; also serves as 4-set coupler—provides isolation and 300-ohm match for up to 4 TV or FM sets. Average gain: channel 2, 17 db; channel 6, 15 db; channels 7-13, 8.5 db; FM, 12 db. "No-strip" terminals. Lead-in supplies DC to amplifier, no external wiring needed. Amplifier, 13/4x21/4x3"; supply, 17/4x3x71/4". Less batteries, below. Wt., 11/2 lbs. 91 C 148. List, \$29.95......NET 18.62

55 J 005. 1½-Volt Battery. For above. Takes 4. Wt., 5 oz.......NET EACH .14

MODEL AB4-AC BOOSTER. Same as AB-4 but power supply operates from 110-120 v., 60 cycle AC. Shpg. wt., 1½ lbs.

91 C 266. List, \$34.95...... NET 21.27

TV SYSTEM ACCESSORIES







TF-731B

MODEL MLF AC LINE FILTER. 60-db RF line to amp isolation. 2 AC receptacles. Surface mtg. 5½x2x1½". Wt., ½ lb. 91 C 267. List, \$20.25.....

MODEL TF-731B FEED THRU OUTLET. Flush-mtg, plate. Single 300-ohm output from 75-ohm thru line. 17 db isolation. 0.7-db thru loss. Size, 4½x2¾x1″. Shpg. wt., ¼ 1b.

91 C 268. List, \$3.00...

MODEL TF-771B FEED THRU OUTLET. Flush-mounted box. Single 75-ohm output from 75-ohm thru line. Same specs and size as TF-731B.

MODEL MB MATCHING TRANSFORMER-Weatherproof VHF and FM balun for installation on antenna mast or boom. Changes balanced 300-ohm impedance to 75-ohms for use with unbalanced coaxial transmission lines. $3\frac{1}{4}$ x2 $\frac{1}{8}$ x3". Wt., $\frac{1}{2}$ lb. 91 C 271. List, \$10.00.........



MODEL TM MATCHING TRANSFORM-ER. Indoor. Matches 72-ohm lines to 300-ohm inputs. Motorola-type jack input. Surface mtg. 2½x1½x1". Wt., ¼ lb. List, \$3.50.
91 C 272......NET 2.06



UHF TV CONVERTERS





MODEL BTU-2S UHF CONVERTER

Provides Amplification and
 UHF Conversion on VHF Sets
 Easy to Install and Operate

MODEL 99R UHF CONVERTER

ALLIED 437

Jerrold TV-FM Distribution Systems, Preamps, Traps.

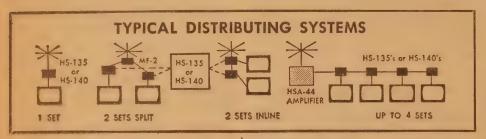


You can play up to 4 sets simultaneously in your home—on a single antenna—using a combination of the easy-to-install components listed below. You'll appreciate the improve-

NEW HSA-44 AMPLIFIED COUPLER

ment in the TV and FM signals you receive, and you'll enjoy the simplicity of installation. Use the illustration below as a guide to selecting your own home distribution system.

FMX FM RANGE EXTENDER



TV COUPLERS



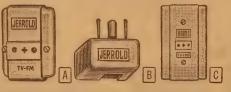
- For 2, 3 or 4 Sets On One Antenna
- No Wire Stripping
- Extremely-Low Loss

For use in either fringe or metropolitan area, these low-loss couplers feature AC isolation between AC-DC TV sets and antenna. All have 300-ohm impedance. Sturdy, universal mounting case. Fully conceals and protects all connecting lead-in terminals. Types MF-2 and MF-4 are designed for fringe area reception.

Have highly-efficient, transformer-type impedance matching. Ideal for color TV. Enclosed in weatherproof polystyrene cases. Size, 41/8x11/4". Shpg. wt., 6 oz.

Stock No.	Mfrs		NET
		For 2-sets. Ivory. For 3 or 4-sets. Ivory.	2.70

SYSTEM TAPS AND ACCESSORIES

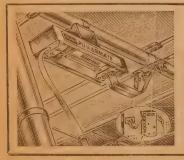


- 93 C 091. HS-24. Twin-line plug. Attaches without stripping. 1 oz. NET......30
- 93 C 093. HS-36. Strap insulators—to install twin lead indoors. 1 oz. Pkg. of 24......1.08

MODEL TX ANTENNA MIXING NETWORKS

TX (FM) separates FM from TV; TX (H-L) mixes or separates high and low VHF channels; TX (VHF-UHF) mixes or separates VHF and UHF. 41/2x11/4". 4 oz.

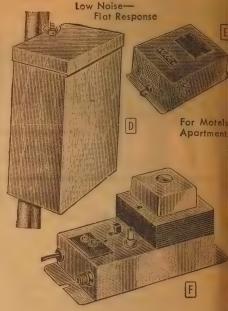
93 C 118. TX (FM). NET......3.57 93 C | 19, TX (H-L). NET.......3.57 93 C 120, TX (VHF-UHF), NET.....3.57



TRANSISTOR ANTENNA-MOUNT PREAMP

- . Up to 18 db Gain
- Extremely Low NoiseUniversal Mounting
- Use with TV or FM

"DE-SNO WER" TV-FM PREAMPLIFIERS



- Recommended for Use in Fringe Areas
 For Snow on TV or Hiss on FM
 Easily Installed; Hardware Included

"TRAP-EASE" TUNEABLE TV ANTENNA TRAPS



• Eliminate Adjacent Channel Interference • Improve Reception

Tuneable interference trap provides up to 50 db attenuation of interfering signals. Permits reception of distant stations blocked out by adjacent-channel stations having greater signal strength. Provides excellent results with any TV receiver and antenna that would normally bring in pictures from the distant station if the interfering signal were not present. Does not affect reception of local stations. Attaches quickly to TV set and antenna lead—convenient screw terminals. Easy to adjust; simply turn end-cap until interference disappears. 1/2x3/2" dia. 300-ohm input and output impedance. In choice of two models. Wt., 2 lbs. 91 C 253, Model HQ-91. Channels 2-6. 91 C 254. Model HQ-92. Channels 7-13.

Spaulding TV Towers—TV Twin Line

SPAULDING "STRATO-TOWER" TV TOWERS

NEW RM SERIES ROOF MOUNT ANTENNA TOWERS

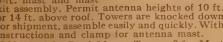
No Guy

Easy to Install, Fit Any Roof

Strong Galvanized Beaded Steel

Easily-installed, self-supporting TV an-enna towers. Require enna towers. Require
to guy wires when
securely anchored to
oof. Adaptable to
to ny roof—three
inged feet fit any
surface, allow tower
and antenna to be assembled and "walkednp" into place. Constructed of heavily
galvanized, beaded
channel steel to withstand the roughest
weather conditions.
Packages include
either 4-ft. or 8-ft.
tower sections with
8-ft. mast and mast
kit assembly. Permit antenna heights of 10 ft.
or 14 ft. above roof. Towers are knocked down
for shipment, assemble easily and quickly. With
instructions and clamp for antenna

BMA 4 ft. Pacef Mount Tower & ft. Mast



metractions and cramp for different master
RM4-8. 4-ft. Roof Mount Tower, 8-ft. Mast
and Mast Kit Assembly. 23 lbs. 92 CZ 358. NET
92 CZ 358. NET
92 CZ 359. RM4. 4-ft. Roof Mount Tower
and Mast Kit Assembly, 16 lbs. NET 6.30
92 CZ 364. RM8-8. 8-ft. Roof Mount Tower,
8-ft. Mast and Mast Kit Assembly. 35 lbs.
NET 13.95
92 CZ 365. RM8. 8-ft. Roof Mount Tower
and Mast Kit Assembly. Shpg. wt., 28 lbs.
NET [1.85

BELDEN TWIN LINE

Type 8275. 300-ohm UHF-VHF Celluline. Recommended for color TV use. Has cellular polyethylene core, inert gas-filled. Brown polyethylene jacket. 7x28 copper-coated steel cond. Wt. per 100 ft., 3½ lbs. 49 T 396. 50' Coil. NET ... 2.35 49 T 397. 75' Coil. NET ... 3.38 49 T 395. 100' Coil. NET ... 4.19 49 W 398. Over 100', Per 100'. 4.19

XCB SERIES, CYLINDER BASE TOWERS

- No Concrete Foundation Required—Sets into Cylinder Base
- Can Be Assembled on Ground or Built Up Vertically

A High-strength antenna towers featuring special "culvert base" for quick, one-man installation without concrete. Self-supporting—require no additional guying or support of any kind. Utilize all-riveted, 100% galvanized steel construction; special design for easy installation of any rotator in top section. Minimize effects of strong wind, yet are light enough for easy handling and quick installation. Each tower package includes heavy-duty culvert-type base with adjustable hinge feet, 8-ft. mast, listed quantity of 8-ft. sections, all necessary parts and instructions. All sections are factory assembled.

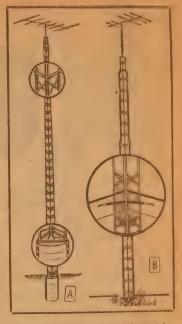
Stock	No.	Mfr's Typ	e Ant. Ht.	TowerSec.	Wt. Lbs.	NET EA.
92 CZ			23'	2	89	36.63
92 CZ 92 CZ			31'	3	120 155	55.78 63.76
92 CZ			47'	5	200	77.59
91 62	832	XOUCB	1 33.	0	212	90.33

EP ECONOMY SERIES TOWERS

- Zinc-Plated Steel Sections for Maximum Strength
- Easy to Install—Mount on Ground or Roof-Top

"Economy Packs" for ground installation with house bracket or guyed roof towers. Each pack has one or more rugged 8-ft. zinc-plated steel tower sections, ground plate, 8-ft. mast, mast kit assembly, drive in base stakes. May extend 16 feet above house bracket without guys; beyond this height, require guying. Less house bracket and roof mtg. base.

Stock No.	Туре	Ant. Ht.	Sections	Lbs.	NET
92 CZ 534 92 CZ 535		46'	5 4	88 72	43.83
92 CZ 540 92 CZ 541	EP-3 EP-2	30'	3 2	56 41	29.22
92 CZ 542	EP-1	14'	1	25	15.78
92 CX 543 92 CX 544		Roof House	Base Bracket	2 5	2.88



Antenna towers are shipped by truck F.O.B. Frankfort, Indiana. No C.O.D. orders accepted—please send full remittance with your order. Also send full shipping address—no Post Office box numbers if possible. Shipping charges will be collected on delivery.

BELDEN, AMPHENOL AND KNIGHT TWIN LINE











BELDEN TRANSMISSION LINE

G Type 8222. 72-Ohm Twin Line. 7x28 stranded copper cond. High-quality brown polyethylene jacket. .075x.128" diam. 100-ft. minimum. Shpg. wt., per 100 ft., 1½ lbs. 1.62 49 W 379. Over 100', Per 100'......1.62

AMPHENOL TWIN LINE



AMPHENOL TWIN LINE

Type 214-100. Flat 300-ohm polyethylene twin line. 100-mil web thickness. 7x28 stranded copper conductors. Brown polyethylene dielectric assures minimum signal loss. Shpg. wt., per 100 ft., 2½ lbs. 49 T 417. 50' Coil. NET ... 1.50 49 T 418. 75' Coil. NET ... 2.09 49 T 413. 100' Coil. NET ... 2.70 49 W 419. Over 100', Per 100' ... 2.70

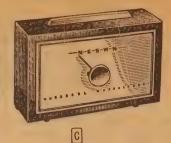
K Type 214-185. Flat, heavy-duty, 300-ohm twin line. For VHF television and FM use. 185-mil web thickness. Resists effects of sun. chemical fumes or salt-laden air. 7x26 stranded copper conductors. 100-ft minimum. Shpg. wt., per 100 ft., 5 lbs. 49 T 414. 100' Coil. NET. 5.40 49 W 426. Over 100', Per 100'5.40

KNIGHT TWIN LINE

M 300-Ohm VHF-TV Twin Line. High-quality twin line. Provides excellent service at a moderate cost. 80-mil web thickness. Low-loss polyethylen jacket. No. 20 stranded con-

auc	OJ:	rs.	21	ıpg.	W	6.,	10	10	IL.	9	60	ы	U.S					-	1	٦
49	Т	47	7.	50'	C	oil.		IE	Ŧ.			,				٠	٠	 	P	1
49	T	47	6.	75'	C	oil.	- 1	IE	Υ									. 8	3 4	4
49	T	44	8.	100)' C	oi	1.	N	ET	٠.					٠.	:		1.0	0	9
49	W	43	5.	Ov	er	100	o'	P	er	1	0	0'				at the		1.0	0	9
			-																	

Choice of Three Handsome Control Units



ALLIANCE TELEVISION ANTENNA ROTATORS



MODEL U-98 ROTATOR FEATURING AUTOMATIC-TYPE CONTROL UNIT

- Smooth, Efficient, Weather-Proofed Rotor Unit
- Automatic Control Unit for Maximum Convenience

Automatic Control Unit for Maximum Convenience

Exceptionally rugged unit used to point antenna in any direction for maximum signal strength. Simply set dial of smartly styled control box—antenna stops automatically when desired position is reached. Compact rotor unit measures 7½ x5½ x8″. Weather-sealed and factory-lubricated for life. Has magnetic brake to prevent overshoot and drifting. 1-rpm motor is instantly reversible for clockwise or counterclockwise rotation. Control unit measures 7x4½x4″. Sloping from panel with easy-to-read dial calibrated N, NE, E, SE, S, SW, W, and NW. Complete with rotor and mahogany plastic control unit. Requires 4-wire cable (listed right). For 110-120 v., 50-60 cycle AC. Less 4-wire cable (listed at right). Shpg. wt., 12 lbs. No Money Down.

25.77

92 CX 336. With ivory case. List, \$45.85. NET......26.66

MODEL K-22 ROTATOR

Heavy-duty rotator; same as above but employs touch-bar-optenna rotation—simply requires light pressure on right or left side of tilting touch-bar. Lever is held down until best picture is obtained. Releasing down-pressure on bar stops antenna instantly—remains fixed without drifting. Center disc on control unit lights when limit of travel is reached. With rotor, mahogany plastic control unit. Less 4-wire cable (at right). For 110-120v., 50-60 cycle AC. Shpg. wt., 12 lbs.

18.08

MODEL T-12 ROTATOR FEATURING METER-TYPE CONTROL UNIT

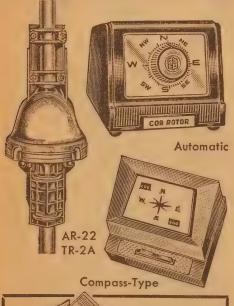
- Clean Straight-lined Styling of Control Unit
- Fingertip Direction of Antenna by Touch-bar

Heavy-duty antenna rotator, same as at left, but with meter-type control box. Control panel has clean straight modern styling with dial calibrated, N, E, S, W and N. Touch-bar on top of control unit permits instant forward or reverse action. Depressing right end of bar rotates the antenna clockwise—left end, counter-clockwise. Meter pointer begins to move as soon as touch-bar is pressed. Simply release pressure on bar to stop at any desired position for best reception. Control unit in attractive mahogany plastic case measures 4½" high, 6½" wide, and 2½" deep. Less 4-wire cable (listed below). For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs. No Money Down.

92 C 339. List, \$34.95. NET.

MODEL TBB2 THRUST BEARING BRACKET

4-WIRE ROTATOR CABLE







CORNELL-DUBILIER RADIART TV ANTENNA ROTATORS

TR-2A ROTATOR WITH ILLUMINATED-COMPASS CONTROL UNIT

- Convenient Fingertip Control
- Can Be Used with New Remote Control

Includes heavy-duty rotator, same as used in AR-22 at right, and illuminated compass-type control box. Control box can be operated directly or from your armchair by new ultrasonic AK-122 remote control, described below. For direct operation, simply depress bar lever on control box to start antenna moving, stop it, or reverse direction. N. E. S, or W letter will light up to indicate direction of antenna. For remote operation, use with AK-122 control below.

Cabinet housing control unit is sturdy, shockproof plastic—looks attractive atop TV set. Less cable; order 8-conductor cable listed below right. For 110-120 volts, 50-60 cycle AC. Wt., 16 lbs. No Money Down.

92 CX 472. List, \$37.95. NET26.41

NEW AK-122 ULTRA-SONIC REMOTE CONTROL PACKAGE

Consists of Ultra-Sonic Actuator and Amplifying Relay Switch Box

AR-22 ROTATOR WITH AUTOMATIC TYPE CONTROL UNIT

- Merely Set the Pointer—Unit Does the Rest
- Positive, Dependable Magnetic Braking

Popular, fully-automatic rotor for TV antennas weighing up to 150 lbs. Use it for mast, tower or platform mounting. Heavy-duty precision gears hold even large TV arrays steady in high winds. Rotor unit employs twelve large ball-bearings in two 6½" taces. Motor reverses instantly—never drags or coasts. Overshoot is prevented by dependable magnetic brake. Weather-sealed and factory lubricated for life. Reversible clamps on rotor unit take masts from ½" to 2" outer diameter.

Control unit dial is marked in compass points: N, S, E, W, NW, NE, SW, and SE. Operation is extremely simple: Set control unit pointer to desired direction, and antenna then automatically rotates to this position and stops. Elimil nates necessity of watching control unit diauntil antenna has rotated to desired direction.

ROTATOR CABLE

47 W 576. Over 100'. PER 100'.....2.78

47 W 593, Over 100', PER 100'......4.20

Antenna Mounts and Accessories

TELESCOPING TV MASTS



TELESCOPING TV MAST.

10 - Ft. Mast.

Leavy-duty telecoping mast of iigh-carbon steel.

deal for any telecision array. Designed for exceptionally easy installation. Husky polts and cotter ins lock each section in place. 18-20 gauge high-carbon steel tubing with 1½-oz. per inch zinc plating inside and out. Consists of 5-10-ft. sections; O.D.: #1 (1½"). #2 (1½").

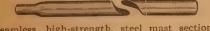
10 - Ft. Mast. Consists of 4 rugged

10-Ft. Mast. Consists of 4 rugged sections (see sizes listed above): Nos. 1, 2, 3, and 4. Maximum height, 40 eet. Shpg. wt., 29 lbs. 92 CZ 102. NET ... 9.78

30-Ft. Mast. Consists of 3 rugged sections: Nos. 1, 2, and 3 described above. Maximum height, 30 feet. Shpg. wt., 21 lbs. 7.04

20-Ft. Mast. Consists of 2 sections: Nos. 1 and 2 described above. Height, 20 feet. Shpg. wt., 14 lbs. wt., 14 lbs. 92 CZ 100. NET......4.31

ANTENNA MAST SECTIONS



Seamless, high-strength, steel mast sections, Ends are swaged for easier installation, Heavy-wall 11/4" O.D. with electro-galvanized finish.

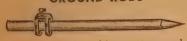
Stock No.	Height	Wall	Wt.	NET
92 CX 084	5 ft.	.035"	3 lbs.	.68
92 CX 119	5 ft.	.051"	4 lbs.	.96
92 CZ 274	10 ft.	.035"	5 lbs.	1.25
92 CZ 335	10 ft.	.051"	7 lbs.	1.95

UNIVERSAL AND ROOF MOUNT

Heavy-duty swivel base mount. Ideal for use with telescoping masts, described above. Extremely sturdy and versatile, it meets the requirements of almost any mast installation. Can be used on any surface—flat, slanted or peaked. For masts up to 2½" in diameter. Shpg. wt., 2½ lbs.



GROUND RODS



An excellent selection of low-cost ground rods. Constructed of moisture-resistant copperplated steel. Special raised lip keeps ground lead connector permanently anchored on rod. With bolt. Shipped by Express or Freight only.

Stock	No.	Size	Shpg. Wt.	NET EACH
92 CX	537	4'x ³ /8"	1½ lbs.	.52
92 CU	538	6'x ³ /8"	2¼ lbs.	.75
92 CU	539	8'x ¹ /2"	5 lbs.	1.52

GROUND AND GUY WIRE

Aluminum Ground Wire. No. 8 solid aluminum wire. For all grounding applications.

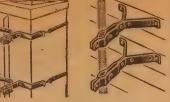
Stock No.	Coil Length	Wt., Lbs.	NET
49 T 653		1 1/2	.65
49 T 650	100-ft.	21/4	1.25
49 TU 652	1000-ft.	20	111.76

No. 20 Galvanized Guy Wire. Six-strand, No. 20 steel wire. Available in 100-ft. or 1000-ft. rolls. Shpg. wt., 100-ft. roll, 2 lbs. 58 T 312. 100-Ft. Roll. NET.........64

71 TU 513. 1000-Ft. Roll. NET......6.38

No. 18 Galvanized Guy Wire. Same as above, but for heavier-duty applications. In 100-ft. or 1000-ft. rolls. Wt., 100 ft., 2½ lbs. 51 T 319, 100-Ft. Roll. NET................94

71 TU 545. 1000-Ft. Roll. NET......9.35









A B For Flat or Peaked







Type 8932. Stainless Steel. Two 12-ft. stainless steel straps with eye bolts, nuts and strap clamps. Shpg. wt., 2 lbs. 91 C 114. List, \$3.55. NET

SNAP-IN CHIMNEY MOUNT

Type 8930. With Stainless Steel Strapping. Simply snap mast into bracket and tighten bolts. Fits masts up to 13/4" diameter. Brackets of heavy-gauge steel, zinc-plated and dichromate-dipped for protection against rusting. With two 12-ft. lengths of stainless steel strapping. Shpg. wt., 4 lbs.
91 C 242, List, \$4.70. NET

"NO-GUY" ROOF MOUNT

CHIMNEY MOUNT

Type 9127. With Stainless Steel Strapping. Sturdy chimney bracket. An excellent choice for economy antenna systems. One piece brackets for quick installation—can be installed in minutes. Brackets are heavy gauge steel, zinc-plated and dichromate-dipped for long life. Brackets securely support antenna mast—even under high wind conditions. Easily adjusted for snug. firm grip. Will support masts up to 13/4" dia. With 2—10-ft. straps and hardware. Shpg. wt., 4 lbs.

91 C 113, List, \$3.82. NET. 1.75

SNAP-IN WALL MOUNT

Type 8308. Same as above, but holds mast 8" from wall. Shpg. wt., 4 lbs.

DELUXE SNAP-IN MOUNT

Type 8312. Heavy-duty wall brackets. Support mast from side of building. Legs of bracket are spaced 16" apart to match studs of homes. Side sway prevented by sturdy mounting legs. Vertical support (not shown) eliminates sag. Provides 12" wall clearance. Doubly protected heavy gauge steel, zinc plated and dichromate dipped for long life. For masts to 13/4" dia. Shpg. wt., 5 lbs. 1.67

Type 8324. Same as Type 8312, but provides 24" wall clearance. Shpg. wt., 10 lbs. 92 CX 130. List, \$7.30. NET......3.58

ANTENNA BASE

Type 9143. Same as Model 9144 but 5 feet high. Shpg. wt., 15 lbs. 92 CU 044. List, \$15.90. NET......6.30

HINGED-TYPE RIDGE MOUNT

G Type 9021. Adjustable hinged brackets install easily on peaked roofs, flat roofs and walls. Extra heavy gauge steel. Fits mast to 1½°. Rust protected. Wt., 3 lbs. .1.08 91 C 381. List, \$2.35. NET.

GUY WIRE TURNBUCKLES

Provide easy adjustment of guy-wire tension. Heavy-duty cast aluminum. Fig. J has closed loops for use where quick removal not required. Other types easily disconnected. Av. wt., 8 oz.



Stock No.	Fig.	Closed	Open	EA.	10-Up, EA.
91 C 039	H	51/2" 63/4"	75/8"	12¢	11¢
91 C 040 91 C 041		71/2"	101/2"		27¢
91 C 042 91 C 043		51/2"	75/8"	12¢	¢ 8¢
91 C 044		71/2"	101/2"		

USE ALLIED'S LIBERAL

CREDIT FUND PLAN

Get the Antenna Equipment You Want Now on Allied's Credit Fund Plan... No Money Down on Orders Totaling \$20.00 or More... Up to 24 Months to Pay.

SPECIAL FEATURE VALUE LOW-COST ANTENNA MOUNT

Extraordinary value in an an-



FLOATING GUY RINGS

Cast aluminum, ring and collar. Fastens with set screw. Permits rotating antenna after guys are installed. Lubricated for smooth rotation. For 3 or 4-guy installations on masts to 13%. Shpg.



wt., 8 oz. 91 C 244. NET.....

Tube Brighteners — TV Antenna Accessories

PERMA-POWER TUBE "BRITENERS"



No wiring necessary—simple plug-in design. Identify proper type by these dimensions.

CR TUBE BASE DIAGRAMS Shell Duodecal Button

Model C-501 Autoformer Type—For Color Tubes. Provides increased filament voltage to boost emission of any 21" or 22" 3-gun tube to fully restore color fidelity and improve picture

Model C-401 Autoformer Type—Duodecal Base. Gives 50% power boost. Works on all blackand-white picture tubes having duodecal base, including electrostatic or electromagnetic types, 8" or larger. Does not relieve cathode-filament shorts. For television sets having parallel wired filaments only. 8oz. List, \$1.49.

Model C-402 Autoformer Type— Duodecal Base. Same as above, but for television sets featuring series-wired filaments

Model K-101 Picture Tube Restorer—Duodecal Base. Boosts emission, corrects open cathodes, heater-cathode shorts, open control grids, control grid-cathode shorts, plus combinations of these defects. Only for use with 6.3-volt, 600-ma tubes, either electrostatic or magnetic focus. Shpg. wt., 1 lb.
9 | C 223, List, \$6.65. NET. 3.90

ALLIED'S LOWEST COST TV TUBE BRIGHTENER



ONLY

- Brightens Picture
- Increases Contrast
- Easy Installation

An exceptionally low-cost TV picture tube brightener. Installs on any black-and-white picture tube with duodecal base—8" or large. Enjoy sharper viewing with this brightener. No wiring necessary—simple, plug-in installation. Gives your set the boost it needs to brighter pictures. Shpg. wt., 8 oz. 91 C 258. For parallel-wired sets......59

91 C 257. For series-wired sets. ONLY .59

ANCHOR PICTURE TUBE "KURE-ALL"



Repairs
Shorted
or Open
TV Tubes
TV Tub

TV ANTENNA ACCESSORIES



















Hanger Strap. Designed for mounting antenna masts to odd-shaped objects. Made corrosion-resistant, heavy 34" galvanized el strapping. 12' coil. Wt., 1 lb. 23

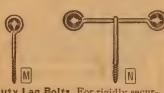
Cable Clamp. Provides non-slip grip on antenna and tower guy-wires. Ends need for splicing or soldering cable loops. Fits cables up to 3/6" dia. U-bolt has 3/6"x24 thread. Galvanized collar has tapered slots—increases cable grip with each turn of wrench. 7/8 x 1x1/6". Shpg. wt., 4 oz.

91 C 144. NET EACH.

Mast Clamp. Has serrated yoke for tight, non-slip grip on masts. For 2 masts with max. O.D. of 1% each. Made of galvanized steel. Wt., per pkg., 4 oz. 2 per pkg. el. Wt., per pkg., 4 oz. 2 C 123. PER PKG....

K Open Guy Wire Hook Eye. Designed to anchor guy wires firmly and securely. Screws into wood. Made of galvanized steel. Shpg. wt., per pkg., 10 oz. 5 per pkg. 22





M with flat, oval or tubular twin-lead, and coaxial TV lead-in. Polyethylene insulation. Fasten securely by screwing into wood. Av. shpg. wt., per pkg., 10 oz. 5 per pkg. 14 91 C 128. 5 ½". PER PKG. 17 91 C 129. 7 ½". PER PKG. 23

N Double-Stand-Off Insulators. Woodscrew type insulator holds two separate lead-ins simultaneously. Can be used for flat, oval, tubular and coaxial lead-ins. Av. wt., per pkg., 10 oz. 5 per pkg.

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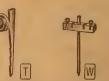
10 oz. 5 per pkg.

10 oz. 5 per pkg.











TV Power Cords, Arresters, Couplers, and Clarifiers

POWER CORDS AND CONNECTORS



Ft. Cord. Same as above, except 9 feet long. apg. wt., 12 oz.

Columbia Type 145 TV Cheater Cord. For use in the home; a "must" item for the dio-TV serviceman, too. Brown plastic 2-nd. cord; molded plastic plugs. 6 ft. long. larized for safety. U.L. approved. Shpg. 1 C 049. NET......32

Male Connector, Flush mounting; used on most TV sets. Shpg. wt., 2 oz. 09

REMBRANDT TV PICTURE CLARIFIER

or Any Type f Antenna

Vashed-Out

ictures ttach It





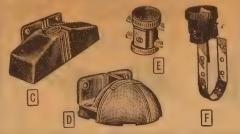
BLONDER-TONGUE COUPLERS

A two-set coupler featuring xcellent isolation—a high-y efficient phase discriminating circuit prevents nteraction between sets. Delivers a strong signal to each TV or FM set. No-strip erminals, for quick and easy installation. 300-ohm impedance. Isolation, 10-20 db. Insertion loss, 3.5 db. Size, 11/4x27/6x21/4". Shpg. wt., 4 oz. 1.76



Model A-105 Hi-Lo Antenna Coupler. An antenna coupler for connecting high and lowband TV antennas to TV set with a single 300-ohm line. Designed for fast, easy installation. Isolation, 21 db. Loss, 1 db. Size, 11/4x2/2x21/4*.

AMPHENOL AND RCA ARRESTERS AND COUPLERS



AMPHENOL COUPLERS

Tele-Couplers. Highly efficient low-loss couplers for operating up to four TV sets from one VHF or UHF antenna. Permit using a single transmission line to antenna. Bifilar wound network provides high degree of isolation to prevent interaction between sets. Also feature very low insertion loss. May be installed indoors or outdoors. Av. wt., ½ lb. Tele-Couplers. Highly efficient low-loss couplers for operating up to four TV sets

Type 114-088. 2 set Telecoupler. 91 C 087. List, \$3.75. NET..... Type 114-090. Up to 4 set coupler. 91 C 089, List, \$5.75. NET......3.45

Antenna Couplers. (Not illus., similar to Fig. C). Eliminate antenna switching and separate lead-lines. Permit using single 300-ohm line to separate high and low-band VHF antenna and VHF-UHF antennas. Efficient filters for effective isolation. With mast mounting hardware. Shpg. wt., 1½ lbs.

Model 114-061 "Isonet." VHF-UHF coupling network. Permits using a single 300-ohm twin line to separate VHF and UHF antennas. 2.25

Color Couplers. Highly efficient, low-loss couplers for connecting two, three or four TV sets to one antenna. Provide effective isolation of sets and low signal loss through proper impedance matching. Work equally well with either color TV sets or black and white. Excellent also for matching FM radios to a single antenna. Have attractive appearance as well as weather-proofing and durability—suitable for either indoor or outdoor installation. Have built-in strain relief (flanged mount) for antenna lead-in. 2-screw mounting. W. 1/4 III.

Type 114-097. 2 sets to 1 antenna. 9 | C 84|. List, \$2.95. NET...... Type 114-098. 3 sets to 1 antenna. 91 C 842. List, \$3.95. NET....... Type 114-099. 4 sets to 1 antenna. 9 C 843. List, \$4.95. NET..........2.97

RCA 2-SET COUPLER AND LIGHTNING ARRESTER

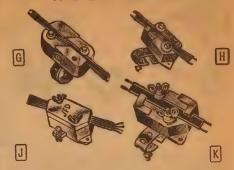
Type 240A1 TV Set Coupler. Permits operation of 2 or more TV sets from one antenna having a 300-ohm transmission line. Saves cost of additional antennas. Uses resistance elements only—does not affect impedance of transmission line. Provides isolation between TV receivers to reduce interference caused by interaction of their oscillators. Easily installed. Shpg. wt., 6 oz.

STANCOR TV TUBE BOOSTER

Model P8192. Adds life to aging picture tubes when dimness is due to low cathode emission. Boosts emission; returns full brightness and contrast to picture. For all electromagnetic picture tubes with parallel-connected filaments. Simple, plug-in installation. Switch provides two levels of brilliance. Size, 3½x1½°. Shpg. wt., 8 oz.



JFD LIGHTNING ARRESTERS AND 2-SET COUPLER



G AT102 Regular Flat-Line Lightning Arrester. Designed to accommodate all ribbon-type twin lead. Has special retaining flange to prevent twin lead from working loose. Water-proof porcelain body. U.L. Approved. With stainless steel hanger strap, 4-ft. aluminum ground wire and mounting hardware. Shpg. wt., 15 oz. 91 C 108, List, \$2.25. NET. 1.32



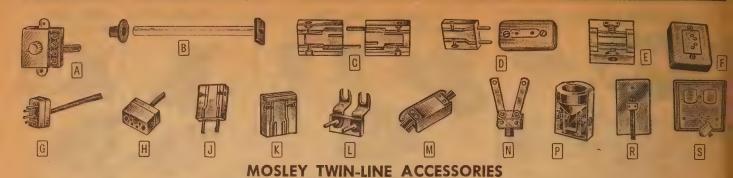
G-C TELCO LIGHTNING ARRESTER

RADIO LIGHTNING ARRESTER



FEATURE VALUE ALLIED'S LOWEST COST TV

VHF-UHF LIGHTNING ARRESTER ONLY 240



B Type 625 Wall-Thru Insulator. For twin line or RG-59/U coax. Fits any wall up to 13" thick. Includes polystyrene tube 14" long, inside plate and outside cap. If desired, universal TV socket, 343-PK (listed below) may be installed on inside plate. Shpg. wt., 1 lb. 91 C 018. Brown plastic ends. 91 C 022. Ivory plastic ends. NET EACH. 1.26

Type 321 Polarized Connector. Efficient twin-line connector consisting of 2 polystyrene plugs, each with one male and one female. Assures proper polarization. 1%" long. Ships. wt., 2 oz. 91 C 156. PER PAIR......39

Type 343-PK Transmission Line Sockets with Plug. Can be mounted on inside plate of Type 625 Wall-Thru insulator, above. With solderless twin line plug and mtg. screws. Shpg. wt., 2 oz.
91 C 005. Brown plastic.
91 C 004. Ivory plastic.

G Line Plugs. Solderless. For 2 or 4-wire, flat or round cable. Shpg. wt., 2 oz.

Stock No.	Туре	Description	NET
91 C 017	303 374	For 2-wire cable For 4-wire cable	.20
71 0 017	1 012	1.01 4-wife cable	.47

Type 364 Line Socket. For use with up to 4-wire flat or round cables. Accepts Type 303 or 374 line plugs above. Solderless, no individual set screws. With phosphor bronze contact strips. Shpg. wt., 2 oz.

Type 902 Dual-Match TV Coupler. Operates 2 TV sets from 1 antenna. For 300-ohm line. Polystyrene construction minimizes losses. Solderless connections. 3 oz. 91 CO12. NET. 1.92

Type 29-S Tubular To Flat-Line Splicer. For joining tubular or oval 300-ohm lines to standard flat lines. Clear polystyrene. Shpg. wt., 3 oz. 91 C 023. NET..

Type F-114PK Combination Flush Socket and Wall Plate. As above, but for 2 twinlines and 4-wire rotator cable. With plugs. 8 oz. 91 C 025. Brown plastic. NET 91 C 026. Ivory plastic. EACH. 2.17

Type AC-14PK Wall Plate Socket. Duplex AC receptacle cover plate with built-in sockets for terminating twin line and 4-wire rotor cables. With twin line and rotor cable plugs. Ivory finish. Shpg. wt., 2 oz. 91 C 003. NET. 2.15

TV INTERFERENCE FILTERS AND TWIN-LINE ACCESSORIES

REGENCY HIGH-PASS FILTER



Model HP-45.

SUPEREX "CLEAR-PIX" FILTERS



Designed to minimize or eliminate the common types of TV interference. Effectively reduce interference caused by Amateur transmitters in the 21 to 21.45 megacycle band, FM, ignition and other high frequency sources. Do not affect signal strength. Quickly installed with only a screwdriver—brass lugs attach to same screws that hold antenna connections at back of receiver. For use with any model TV set using 300-ohm twin lead transmission line. Shpg. wt., 5 oz.

Stock Mfr's No. Type		Interference Used For	NET	
91 C 066 91 C 068 91 C 067 91 C 065	CPF CPI	21 mc Amateur Strong FM station Ignition or similar Citizens Band	1.17	

R. L. DRAKE HIGH-PASS FILTER



Model TV-300-HP. Efficient Model TV-300-HP. Efficient high-pass filter. Attenuates more than 40 db from 0-52 mc—highly effective on 6-meter Amateur TVI. For 300-ohm use. Size, 2½x2½x1½*″. Shpg. wt., ½ lb. 91 C 160. NET.....3.97

JFD ANTENNA SWITCH



Deluxe Model AS3. Constant 300-ohm impedance rotary switch with low-loss silver contacts. Selects any one of up to three antennas. Plastic case; handy screw terminals for easy installation. Size, 13/4x5x2". Shpg. wt., 2 lbs.

91 C 112. NET 2.91



CINCH-JONES WALL PLATES For terminating TV antenna leadin and rotator cables in standard wall outlet. Wall plates are chrome-plated. Model S-302 for antenna lead-in. Model S-302-4 for lead-in plus 4 rotator wires; Model S-302-8, for lead-in and 8 rotator wires. Shpg. wt., 7 oz.

WPC Style TV Wall Plates

91 C 036, S-302, NET 1.38 91 C 037, S-302-4, NET 1.67 91 C 038, S-302-8, NET 1.79

CCT Style Plugs for Above

40 H 802. P-302. Antenna plug. NET......57 40 H 804. P-304 4-wire rotor plug NET.....66 40 H 808. P-308 8-wire rotor plug NET....81

AMPHENOL HIGH-PASS FILTER



Model 114-330. Reduces TV interference from transmitters, diathermy, ignition, etc. Attenuation: 60 db below 50 mc. 300 ohms. 15/8 x4 3/4 x3 1/6 ". Shpg. wt. 6 oz 91 C 090. NET. 4.17

TACO SELECTIVE ATTENUATOR



Model 835. 300-ohm variable attenuator for TV and FM receivers. Reduces sound and picture distortion caused by overdriving receivers. Positions: 0 db for normal reception; 15 db for minimum; 30 db for maximum. 4½x2¼". Shpg. wt.. 5 oz. 2.97

TELCO LEAD-IN TUBES



Components and Accessories

"PEERLESS" TV TABLES











Model 41 Phono-TV Table. Table top is 1-piece sheet metal. Holds any size portable or table-model TV set, phonograph, etc. Arms extend from 16" to 30". Stands 24" high. Easy rolling 3" casters; utility or record storage shelf. Finished in satin black. Shpg. wt., 12 lbs.

Model 26. Same as above, but in lustrous brass finish. Wt., 12 lbs. 7.17



"SLIMLINE" SERIES. Slim and graceful in appearance, these sturdy TV tables are especially designed to hold the new, narrow, "slimline" TV sets. Compact TV tables take up less space in living rooms and dens. All have 21" wide and 9½" deep table tops. Durably finished in black, non-chip enamel and hard-shell brass. Extremely stable and tip-proof, the tables can be easily moved about—indoors or out. Clear lucite casters swivel smoothly at the slightest touch. Attractive lower shelf for record or magazine storage. In black enamel or brass finish.

Model 126 Slimline TV Table. In rich brass finish. Uses full ¾" dia. tubing on legs for maximum strength. 24" high. Side arms adjust from 19" to 31". With easy-rolling 3" casters. Shpg. wt., 11 lbs. 7.50

Model 116 Low Slimline TV Table. (Not illus.). Similar to Model 126 above, but lower. Stands 16" high. Clear 2" casters. Finished in triple-plated brass. Protected with a heavy coat of baked lacquer. 9 lbs. 6.90

Model 111 Low Slimline TV Table. Same as Model 116 above, except has long-lasting black enamel finish. Shpg. wt., 9 lbs. 4.95

Model 186 Tall Slimline TV Table. Ideal height for bedside viewing—31" high. Highly recommended for hospitals, motels and hotels. Slimline table-top measures 9½x21". Compact depth enables table to "hug" the wall in places where space is at a premium. Quality design features 2 wire shelves for holding a table radio, books, magazines, etc. Table arms let you push or pull entire cart to various locations with utmost ease. Arms adjust from 19" to 31", easily accommodating largest table model TV's. Tip-proof table rolls almost effortlessly on 3" clear lucite casters. Shpg. wt., 14 lbs.

TELEVISION ACCESSORIES



















A

Miller Antenna Transformers. Permits use of low-loss 52 or 72 ohm coaxial cable on 300 ohm receiver inputs. 2 required: one at antenna, and one at receiver. May be used indoors or outdoors. Size, 13/ex3/4x3/4". Wt., 2 oz. 91 C 158. Type 6161. 52 ohms. 91 C 159. Type 6162. 72 ohms. NET EACH.

Clarostat TVA Voltage Regulator. Protects TV sets from power surges; reduces surge of 140 v. to 110 v. For sets using 200-300 watts. 5 oz.

91 C 000.NET 2.06

Amphenol 114-313 Matching Transformer. Stub-type transformer for matching 72 ohm and 300 ohm impedances. Matches 72 ohm line to 300 ohm antenna or receiver inputs; also matches 300 ohm line to 72 ohm inputs. Excellent for matching folded dipole artenna to coaxial lead-in. Spade lugs on each 14 oz.

Perma-Power B-101 Horizontal Bar Generator. Provides series of horizontal lines for accurate checking of picture linearity. Also used for setting of deflection yoke and focus coil for magnet. Plugs into all duo-decal type picture tube sockets. With instructions. Size, 1½x1½". Shpg. wt., 5 oz. 1.72

Miller 6295 Adjustable Ion Trap. Universal single-magnet ion trap. Replaces any single trap within range of 32 to 55 gausses. Wt., 6 oz.

91 C 103. NET. G-C TUBE-SAVER-TRIPLES TUBE LIFE

KNIGHT TV ANTENNA INSTALLATION KITS

Extremely useful TV antenna installation kit at a money-saving price. Ideal for making new TV antenna installations or for repair of existing installations. Top-quality components for years of reliable service. Kit includes: three 3-foot mast sections of rugged heavy wall, galvanzied steel; 100 ft. of 300-ohm twin line; U.L. Approved lightning arrester; five screw-type stand-off insulators; two mast-type stand-off insulators; 20 feet of No. 8 gauge, solid aluminum ground wire; plus antenna installation diagrams and instructions. Shpg. wt., 734 lbs. 92 CX 018. NET.



G-C TUBE-SAVER—TRI
Model 25-898. A highly effective device for extending the tube life of TVsets, hi-fi music systems, radios and
other electronic equipment. Plugs in
quickly and easily to provide constant
protection of tubes against sudden
surges of voltage. Tube-saver plugs into wall outlet; set plugs into tubesaver. Size, 234x2½x1¼". For 100-275
watt sets. For 110-120 v. 50-60 cycle
AC-DC. Shpg. wt. 7 oz.
9 | C 2 | O. List, \$4.95. NET... 3.23

Model 25-900. For color TV sets. 250-69400 watts. Shpg. wt., 12 oz. 3.89





AM Antennas, Antenna Kits, TV Tuner.



SUPEREX HIGH-GAIN AM LOOPSTICK ANTENNAS

A complete selection of low-cost, high-efficiency, ferrite-core antennas. Ideal for replacing old-fashioned loop antennas. Feature extremely high gain, stable performance and uniform response, Will greatly improve signal to noise ratio. Reception is equally sensitive from all directions. Easily mounted. Tune 540 to 1600 kc (AM broadcast band) with 365 or 410 mmf tuning capacitor.

WLT-240 Transistor Vari-Loopstick. Has impedance tap; micrometer adjustment. Simplified, one-hole snap-in mounting. For use with 365 mmf or 410 mmf variable tuning capacitor. Size, 1/2. Shpg. wt., 4 oz. 72

B Ferri-Loopstick, Excellent low-cost, replacement antenna for AM broadcast receivers. Needs no orientation. Has "O" of 240-275. Single-hole snap-in mounting. Size, 1/6x2" long. Shpg. wt., 4 oz.

Covers, including the smallest portables. Has "Q" of 250, Adjustable ferrite core permits peaking. Single-hole snap-in mounting. Size, 1622/4". Shops. wt., 4 oz.

Vari-Tenna. For use with older radio sets equipped with built-in antenna. Features high sensitivity and excellent signal-to-noise ratio. Boosts gain up to 25 times. Single-hole mounting. \(\frac{1}{2}\times \frac{1}{2}\times \fr

"Energized" Ferri-Loopstick. loopstick has a "Q" of up to 350.	This 5"
high gain brings in weak, distant sta	
justable coil with self-locking vinyl	
mits peaking antenna for optimus	
Single-hole mtg. Size, 3/8x5". Wt., 6 o	DZ. 88
91 C 062 NFT	00

High "Q" Transistor Loopsticks. Ideal replacement for most transistor sets. Extremely high "Q". Movable turns and multiple taps; Flat design provides excellent pick-up. All tune 540 to 1600 kc with standard 365 or 410 mmf tuning capacitor. *Direct replacement in many Japanese radios.

No.	Туре	μH	Size	Wt.	EACH
91 C 053		200-265	23/4"	2 oz.	1.62
91 C 059		360-425 200-265	2½" 35%"	2 oz. 2 oz.	1.36
91 C 055		175-260 170-265	51/4"	3 oz. 4 oz.	1.62
21 0 0 201	71 1-240	170-203		4 02.	1.70

REPLACEMENT ANTENNA LOOP

WINDOW LEAD-IN

ALL-PURPOSE TV SERVICE CORD



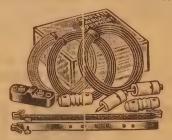
PERMA-POWER MODEL D-200 AUTOMATIC VOLTAGE REGULATOR



Maintains normal op-erating voltage on TV sets, hi-fi systems, fans, power tools, etc.,

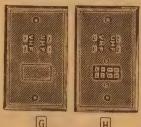
Model D101 Line Voltage Regulator. As above, but has 3-pos. selector switch for boosting or lowering voltage. Plugs into AC outlet; appliance plugs into regulator. 21/4 lbs. 4.09

DELUXE BC-SW ANTENNA KIT



Standard BC-SW Antenna Kit. 50 ft., 7x26 bare copper wire; 25 ft. lead-in; 2 antenna insulators; 2 nail knob insulators; 1 window lead-in and 1 ground clamp. Shpg. wt., 1½ lbs. 1.03

CINCH-JONES TV WALL PLATES



Low-loss wall outlets for UHF and VHF TV an-tenna twin lead-ins. WPI-8 and WPB-8 also have WPB-8 also have 8-wire rotor out-lets. WPI and WPB have knock-out panel for in-serting Cinch-Jones S-308-AB socket if rotor is added later. Fit standard outlet mtg. screws. Less

box—or attach to wall. With mtg. screws. Less plugs, below. Shpg. wt., 7 oz.

Stock No.	Fig.	Туре	Color	NET
91 C 027 91 C 028 91 C 029 91 C 030	G H H	WPI WPB WPI-8 WPB-8	Ivory Brown Ivory Brown	.98 .98 1.58
		441 D-9	DIOWII	1.58

9 | C 03 | Type TVP-2 Two-Prong Plug. For all plates above. Shpg. wt., 2 oz. NET. .22 40 H 874. Type P-308-AB Rotor Plug. For WPI-8 and WPB-8. Shpg.wt., 3 oz. NET. .49

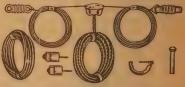


CONSOLIDATED ANTENNAS

MODEL 615 LONG WAVE, SHORTWAVE AND BC ANTENNA KIT

An excellent antenna kit for all-wave reception. Contains all wire and parts for any one of the following antennas: balanced doublet; double doublet; or inverted-L. Includes: 100 ft. of bare antenna wire; 50 ft. of insulated transmission line; 4 insulators; 2 bakelite screw eyes; doublet lightning arrester; lead-in strip; and ground clamp. Complete with assembling instructions. Shpg. wt., 31/4 lbs. 4.26

MODEL 635 DOUBLET ANTENNA



COPPERWELD ANTENNA WIRE

High-quality, copperweld antenna wire. Features copper outer conductor and steel core. May also be used for guying antenna towers and masts.

Stock No.	Gauge	Feet	Wt., Lbs.	EACH
49 T 133	12	100	2	2.69
49 T 134	12	250		6.30
49 T 140	14	100		2.37
49 T 141	14	250	3	5.12
58 T 318	18	250		1.47
58 T 317	18	500		2.94
58 T 315	18	3000	18	14.48

STANDARD COIL TV TUNER



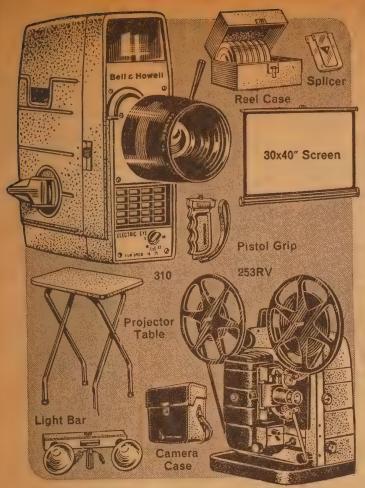
Model GK-2550 "Guided Grid" Neutrode Re-placement Tuner.

TYPE 31M-213 TV TUNER STRIPS



Replace original Standard Coil strips. Set includes antenna and oscillator strip for VHF (channels 2-13 only). Specify channel number required and tuner series letter stamped on original strips. 4 oz.

Stock	For	Stock	For
No.	Series	No.	Series
91 CC 097	F	91 CC 100	Q
91 CC 098	H	91 CC 101	R
91 CC 099	K	91 CC 102	U
NET EACH.			2.19



& Howell 8mm Movie

Net

- With Zoom Lens and Coupled Eye
- Viewfinder for Easy Zoom
- 9-27 mm, f2.3 Camera Lens
- Projector Takes "Half-Hour" Reels

\$10 monthly • Outfit Includes Every Accessory

You'll really enjoy capturing the fun of family get-togethers, vacations and other happy events with this superb 8mm movie outfit. It's easy to be an expert with the remarkable Bell & Howell 310 camera. Has a 9-27mm, f2.3 lens for beautiful color films that you'll dramatically zoom from normal to telephoto for exciting and interesting closeups. Coupled viewfinder shows you exactly what the lens sees while you zoom. Full-time coupled "eye" sets the correct lens opening for you, and a beacon warns against too-dim conditions. Has ASA settings from 5-40. Speeds: 16 fps plus single-frame. Also has continuous run lock, automatic footage counter and universal focus.

In addition to an excellent camera, outfit includes famous Bell & Howell 253RV projector that always shows your shots to best advantage. The 253RV has enclosed gear-driven reel arms for exadvantage. tremely reliable and quiet operation. Features a'400-ft. reel capacity for a half-hour run. Additional highlights: exceptionally simple threading system and convenient fingertip controls; a quality 1" f1.6 anastigmat lens that throws out an extraordinarily bright, sharp image; and still-picture feature that lets you take a "closer look." Speed is continuously variable. The 253RV projector also can reverse operation easily. Permanently lubricated at the factory.

You get even more: 30x40" beaded screen; projector table that folds and stores in small space; reel storage case with 6 reels and cans; camera case; pistol grip handle with leather safety strap; film splicer; and a two-light bar for excellent indoor color or black and white shots. 46 lbs.

8mm Movie Outfits for Year-Round Fun

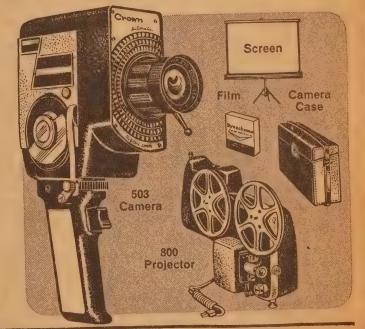
Crown 8mm Movie Outfit

Net

- Full Range Zoom Lens
- f1.8 Lens and Reflex Viewfinder
- Red Signal Shows Insufficient Light
- Projector Capacity: 30 Minute Reel
- \$8 monthly • Includes Reel of Color Film

Store up present events for future enjoyment with this excellent 8mm array. Features Crown 503 automatic electric eye camera with smooth-operating zoom lens. Crown 800 projector also has zoom lens, enlarging picture area 4 times. Also offers slow motion and reverse action. 400-ft. reel capacity for 30-minute showings. 30x40" screen is finely beaded to assure bright pictures —rigid tripod leg construction. Supplied complete with instruction booklet, camera case and roll of Dynachrome color film with processing charges prepaid. 25 lbs.

an as aco at the Monthly	NET 149.95
20 V 369-4J. \$8 Monthly,	NET 60 05
04 V 904 503 Camera Oniv. 3 108	IAL 09:99
94 VII 607 Projector Only, 6 lbs.	NE 1 19.99
24 VU 695. Screen Only. 8 lbs	NET 9.95
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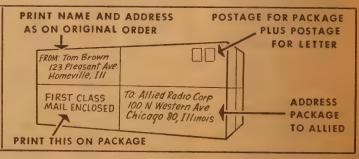


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Prices in this catalog are in terms of U.S. funds. We will deduct 10% from the face value of remittances made in Canadian funds. Please adjust your remittance accordingly. We limit parcel post shipments to Canada to 25 pounds and 72 inches (length plus girth). Remit 80c for the first 2 pounds and 30c for each additional pound. Remit for insurance in the amounts indicated for insurance in the amounts indicated at right, above. C.O.D. and air parcel post services are not available. We can ship by express and freight.

SHIPMENTS TO ALASKA

Parcel post shipments (surface and air) are made at the 8th zone rates given in the tables at right. On shipments other than parcel post (air freight or express, truck, or oat) Marine & Risk insurance is necessary. Please send funds to cover charges on the following basis: air freight or air express, 10c per \$100.00 valuation; truck or boat, 50c per \$100.00 valuation.

SHIPMENTS TO APO'S or FPO'S

Shipments by both air and surface are usually limited to 70 pounds and 100 inches (length plus girth). Exceptions exist so please determine restrictions to your APO or FPO before ordering. Please remit charges (using the tables at right) on the following basis: New York APO's and FPO's take zone 5 rates; San Francisco APO's and FPO's take zone 8 rates. All air shipments take zone 8 rates.

SHIPMENTS TO U.S. POSSESSIONS

Parcel post shipments to the Canal Zone, Canton Island, Caroline Islands, Guam, Marianna and Marshall Islands, Puerto Rico Marianna and Marshall Islands, Puerto Rico (*see note below), Samoa, Virgin Islands, and Wake Island are limited to 70 pounds and 100 inches (length plus girth). Please remit for charges using the zone 8 rates. *Note: The Commonwealth of Puerto Rico imposes excise taxes on electrical appliances (hi-fi systems, components, etc.) which amount to a minimum of 15% of the invoice price, collected at point of delivery.

SHIPPING INFORMATION

PARCEL POST INFORMATION AND CHARGES

PARCEL POST. We limit parcel post shipments to 20 pounds and 72 inches—length plus girth (measurement around widest point). Shipments of high value or those easily damaged are shipped by express even when they fall within parcel post limits. Items that are not mailable have "U" or "Z" in our stock number—see explanation in column at left. Parcel post rates in table below are current, but subject to change without notice,

HOW TO ESTIMATE PARCEL POST CHARGES

Up to 16 ounces, all zones, allow 3c for first 2 ounces, $1\frac{1}{2}$ c for each additional ounce

The post office charges a fraction of a pound as a full pound. For example, if the total weight is 5 pounds and 1 ounce to Zone 4, postage would be for 6 pounds (70¢)

WEIGHT 1 Lb. and Not Exceeding	Chicago	1st & 2nd Zone, up to 150 mi.	150 to	4th Zone 300 to 600 mi.	5th Zone 600 to 1000 mi.	6th Zone 1000 to 1400 mi.	7th Zone 1400 to 1800 mi.	Over
2	\$0.24	\$0.33	\$0.35	\$0.39	\$0.45	\$0.51	\$0.58	\$0.64
3	.26	.38	.41	.47	.55	.64	.74	.83
4	.28	.43	.47	.55	.65	.77	.90	1.02
5	.30	.48	.53	.63	.75	.90	1.06	1.21
6	.32	.53	.59	.70	.85	1.03	1.22	1.40
7	.34	.58	.65	.77	.95	. 1.16	1.38	1.59
8	.36	.63	.71	.84	1.05	1.29	1.54	1.78
9	.38	.68	77	.91	1.15	1.42	1.70	1.97
10	.40	.73	.83	.98	1.25	1.55	1.86	2.16
11	.42	.77	.89	1.05	1.35	1.67	2.02	2.34
12	.44	.81	.95	1.12	1.45	1.79	2.18	2.52
13	46	.85	1.01	1.19	1.55	1.91	2.34	2.70.
14	.48	.89	1.07	1.26	1.65	2.03	2.50	2.88
15	.50	.93	1.13	1.33	1.75	2.15	2.66	3.06
16	.52	.97	1.18	1.40	1.85	2.27	2.81	3.24
17 .	.54	1.01	1.23	1.47	1.95	2.39	2.96	3.42
18	.56	1.05	1.28	1.54	2.05	2.51	3.11	3.60
19	.58	1.09	1.33	1.61	2.15	2.63	3.26	3.78
20 .	.60	1.13	1.38	1.68	2.25	2.75	3.41	3.96
21	.62	1.17	1.43	1.75	2.34	2.87	3.56	4.14
For Each	Add	Add	Add	Add	Add	Add	Add	Add
Extra Lb.	2¢	4¢	5¢	7¢	9¢	12¢	15¢	18¢
	Over	20 pound	ds shippe	d express	or truck.	See belo	w.	

TRUCK AND RAIL FREIGHT: Freight is the cheapest form of transportation on the heavier shipments. The approximate truck freight charges shown below will differ in various sections of the country. **Freight charges are collected on delivery.**

HOW TO ESTIMATE TRUCK FREIGHT CHARGES

Minimum	Maximum Distance in Miles											
Charge	-50	150	300	500	750	1000	1500	2250				
100 Lbs.	4.41	4.41	4.68	4.91	5.94	6.46	8.38	9.83				
150 Lbs	4.41	4.41	4.68	5.12	6.24	6.88	12.57	14.76				
200 Lbs	4.41	4.84	6.18	6.82	8.32	9.18	16.76	19.68				
For each Extra Lb.	2¢ .	3¢	3¢. ∶	4 ∉	○ 4¢	5€	8¢	10¢				

EXPRESS: Please remit full amount for merchandise, but do not send any money for express charges with your order. Shipping charges are collected on delivery at no extra cost to you. All "U" and "Z" items (see column at left) are usually shipped by express.

HOW TO ESTIMATE EXPRESS CHARGES

(Rates are about 10% higher to eastern states.)

Weight in				IVI	ileage			
Pounds	50	150	300	500	750	1000	1500	2250
5	2.87	2.93	3.02	3.14	3.20	3.26	3.33	3.40
10	2.95	3.11	3.30	3.53	3.66	3.76	4.10	4.33
15	3.05	3.30	3.57	3.90	4.11	4.27	4.78	5.27
20	3.15	3.48	3.85	4.30	4.36	4.78	5.47	6.21
25	3.26	3.56	4.11	4.59	5.04	5.30	6.14	7.14
35	3.45	4.03	4.68	5.47	5.74	6.30	7.50	9.01
45	3.63	4.38	5.23	6.24	6.87	7.32	8.86	10.91
55	3.83	4.76	5.77	7.02	7.77	8.33	10.21	12.79
70 .	4.13	5.31	6.58	8.17	9.14	9.87	12.25	15.59
80	4.35	5.68	6.95	8.95	10.15	10.87	13.61	17.39
For each								
100 Lbs.	4.76	6.39	8.25	10.52	11.87	12.91	16.34	21.23

AIR SHIPMENTS: We will ship your order by Air Parcel Post, Air Express or Air Freight if you instruct us to do so. Air Parcel Post rates are given below. Consult your local express office for Air Express charges, and your nearest commercial airport office for Air Freight rates. Air freight and air express charges are collected on delivery. Air Parcel Post size and weight limits are 70 lbs. and 100", length and girth combined.

AIR PARCEL POST RATES

(7c per ounce, up to 8 ounces)

ZONES	1,2 & 3	4 .	5	6	7.	8	U. S. Territories,
1 st Lb.	60c	65c	70c	75c	.75c	80c	Possessions and
For Each Extra Lb.	Add 48¢	Add 50¢	Add 56¢	Add 64¢	Add 72¢	Add 80¢	APO & FPO Addresses, 80c per lb.

at ALLIED you get the most for your money

IN THRILLING, TRUE STEREO HIGH-FIDELITY







only HIGH-FIDELITY COMPONENTS can bring you these advantages:

Better Sound for Your Money. Hi-fi components are designed and built by specialized manufacturers whose primary interest is the creation of fine audio instruments.

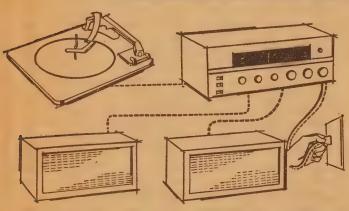
More Flexibility. Compact in size, hi-fi components can be placed anywhere ... in any room, on shelves, in "built-ins", or your own choice of attractive hi-fi cabinetry.

Acoustically Designed Speaker Enclosures. You get genuine hi-fi speaker enclosures, acoustically designed to produce rich. natural sound-approved designs are always used. These include bass reflex, folded horn, infinite baffle and ducted port types. plus the popular high-compliance types. The sound you get is truly superior.





COMPONENTS ARE EASY TO CONNECT-THEY JUST PLUG IN!



It's easy to assemble an Allied true stereo high-fidelity system in your own home. No technical knowledge is required-no special tools are needed. You just plug the record changer connectors into the receptacles on the amplifier—they are clearly identified for utmost convenience. Connect the speakers to the amplifier terminalstwo 15-foot speaker cables are included with each system, each channel is identified so you can't make a mistake. Plug the amplifier into an AC outlet and you're ready to sit back and enjoy the magnificent sound from your Allied stereo high-fidelity system. And remember-with a component high-fidelity system you can add a tape deck or tuner any time you wish.

THIS STEREO SOUND

The ultimate in musical realism is stereo hi-fi. Stereo is actually 2-channel sound; that is, two microphones are used to make two simultaneous recordings—one from each side of the performing group. Each of these channels of sound is then applied to records, tapes or broadcasts. On records, a separate channel of sound

is put on each side of a V-shaped record groove. On tapes, each channel of sound is recorded on a separate portion of the tape width. And in stereo radio broadcasts, these two channels of sound are transmitted over the air from a single FM station, to bring you our newest source of stereo music-stereo multiplex FM broadcasts.

IT'S EASY TO ADD FM STEREO MULTIPLEX TO YOUR HI-FI SYSTEM

The "magic" of stereo FM multiplex has improved the quality of radio broadcasts to a level of realism that has to be heard to be believed. Stereo FM multiplex trans-

mission is in use by stations all over the country and no stereo high-fidelity music system is really complete until it includes provisions for reception of stereo FM.



Stereo FM Multiplex Tuner



Stereo FM Multiplex Adapter

IF YOU NOW HAVE A STEREO PHONO SYSTEM

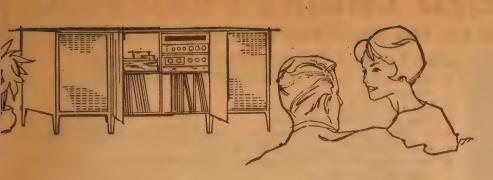
If you already have a high-fidelity stereo phono system, you can increase your listening enjoyment immensely by adding an FM Stereo Multiplex Tuner. Tuners are now available with built-in facilities for separating the composite two-channel (multiplex) signal broadcast by multiplex FM stations. These tuners have a dual output cable that simply plugs in to the receptacles labelled "Tuner" on the back of your stereo amplifier.

IF YOU NOW HAVE A STEREO PHONO SYSTEM WITH A MONAURAL FM TUNER

If your present system includes a stereo amplifier and a monaural FM tuner, you can convert to stereo FM multiplex by simply adding a multiplex adapter. Most late model FM tuners have a receptacle for plugging in an adapter. If your FM tuner does not, one can easily and economically be installed by our service technician. The dual output of the adapter plugs in to the "Tuner" receptacles on your stereo amplifier.

SHOULD YOU REQUIRE ANY ASSISTANCE IN **DETERMINING YOUR** STEREO HI-FI NEEDS

Allied offers free, expert consulting service. Our audio specialists are glad to answer any questions on high fidelity. If you desire any assistance when choosing a complete music system or any individual com-ponent to add to your present system, feel free to write to Allied's Audio Division. Why not take advantage of this free, personal and friendly high-fidelity consulting service?



ALLIED makes it easy for you to select a stereo hi-fi system at greatest savings

SELECT YOUR OWN SYSTEM-GET OUR SPECIAL PRICE

Study the pages on which individual hi-fi components are described—make a list of the units you prefer—then just write to our Audio Division asking for a special System Plan price quotation. Our audio consultants will review every customer-selected system for proper matching of components (speakers correctly matched to enclosures, etc.), to assure you of peak performance. You can count on a prompt reply to your quotation request—and with any system you select, you get these FREE extras—all connecting and speaker cables, instruction manuals, needle and record care booklet, and preset stylus pressure to match the cartridge you select.

SELECT AN ALLIED-RECOMMENDED MUSIC SYSTEM

You'll find many excellent systems listed in this catalog, made up of components that are carefully matched in quality and operating characteristics. Pay particular attention to the new Knight systems, and do-it-yourself Knight-Kit systems. They're selected to give you unprecedented quality in music reproduction at lowest cost.

SELECT FROM THE WORLD'S LARGEST STOCKS

This catalog presents everything in high-fidelity—amplifiers, tuners, speakers, record changers, turntables, cartridges, tape recorders, etc. Biggest selections of famous standard-brand components, and hard-to-get accessories, too—all are included here in a wide range of prices, always in stock, ready for prompt shipment to you.

We Sell More Stereo Hi-Fi Than Anyone Else in the World ... Because We Give You Every Buying Advantage

Lowest, Money-Saving Prices . . . on all hi-fi components; special savings on our matched music systems and on Knight and Knight-Kit products.

World's Largest Selection . . . of everything in hi-fi, in stock ready for

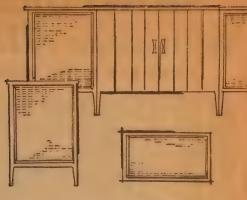
prompt shipment to you.

Expert Counseling Service. Our audio specialists will be glad to answer any question you may have on high-fidelity. For assistance in choosing a hi-fi music system to fit your taste and budget, write to Allied's Audio Division. All inquiries promptly answered.

HOME TRIAL PLAN For Your Complete Satisfaction

Buy any hi-fi component or system on cash terms or on our Credit Fund Plan. Then check performance in your own home. If you are not fully satisfied with your purchase for any reason, return the equipment to us. We will refund the full purchase price.

Complete Warranties. All hi-fi components sold by Allied are covered by standard manufacturers' warranties and Allied's own warranties on Knight and Knight-Kit products. In addition, you are protected by Allied's guarantee of complete satisfaction or your money back. We have expert servicing facilities for everything you buy.



WORLD'S LARGEST SELECTION OF CRAFTSMAN-CREATED HI-FI CABINETRY AT LOWEST PRICES

An outstanding selection of fine furniture in styles and finishes to match any decorative scheme—in price ranges to suit any budget. Make it a point to check Allied's superb array of hi-fi furniture. You'll find matching ensembles of unusual beauty and individual pieces in a complete range of furniture modes.

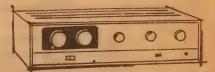


and

knight-kit

STEREO HI-FI SYSTEMS
AND EQUIPMENT
ARE YOUR BEST BUYS





Incorporating the best of the latest electronic developments, and custom-built of the finest quality components, Allied's own Knight components are renowned as the greatest hi-fi values anywhere. All Knight units carry an unconditional guarantee covering parts and labor for one full year. Allied brings you famous Knight-Kits too—an outstanding selection of superior hi-fi components in build-your-own form. See pages 2 and 3 in this catalog for the complete Knight-Kit story.

NOW! GREATER BUYING POWER with your ALLIED CREDIT FUND PLAN

you get even more for the same low monthly payment!

New Lower Terms-Greater Buying Power than ever with your

CREDIT FUND PLAN

NEW EXTRA BUYING POWER LIKE THIS: FOR ONLY \$5 MONTHLY YOU CAN BUY UP TO \$100

Credit Fund Payment Table

Monthly **Payment**

Unpaid Balance (Total amount less any payment)

Only Bu	ys Up To
\$5 ,,	\$100
\$6	\$120
\$7 / 200 200 200	\$140
\$8 13 8 2 10 7	\$160
\$9	\$180
\$10-20-20-20	\$200
\$11 July Mill Participa	\$220
\$12	\$240
\$13 [17] (4.7)	\$260
\$14	\$280
\$15	\$310
\$16	\$340
\$17	\$370
\$18	\$400
\$19	\$440
\$20	\$480
\$21	\$500
\$22	\$525
\$23	\$550
\$24	\$575
\$25	\$600
\$26 34 366 77	\$625

Over \$625-Monthly payments will be in proportion to amounts on chart.

Small Service Charge. Only a small service charge of 11/2% is added to your monthly balance. There are no other charges. Your monthly statement shows exactly what you pay, what you owe and how much unused credit you have.

Get These 7 Outstanding Advantages

- 1. More buying power-your Allied CREDIT FUND PLAN gives you more than ever
- Not a penny down required
- 3. Take up to 24 months to pay
- 4. A definite amount is set aside in a CREDIT FUND for your use
- 5. Make "add-on" purchases at any time
- 6. You always know where your account stands—you get a full statement each month
- 7. Your CREDIT FUND automatically increases every time you make a payment

Plus Benefits: A single low monthly payment brings you anything Allied sells. You save money, because all you pay is a small monthly service charge, which is automatically reduced every time you make a payment. No service charge at all if paid in 30 days,

Here's How the Allied CREDIT FUND

Works: When you first open an Allied CREDIT FUND account, we set up a Credit Fund in your name. It allows you a definite amount which we set aside in a Fund for your use. Buy anything you want without a penny down—covers "add-ons," too.

You always know exactly how much more credit is available to you. Under the CREDIT FUND Plan, you can actually enjoy more buying power than ever before possible for the same low monthly payment. Example: For a monthly payment of only \$20.00 you can now buy in the amount of \$480.00 as compared to \$400.00 under the old regular terms.

To Open Your Account. To enjoy the advantages of an Allied CREDIT FUND, fill in the application on the back of our order blank, and send it in with your order.

No Down Payment Required

No down payment is required on any purchase you make on your Allied Credit Fund Plan. You can use all or any portion of the amount in your Fund. Your monthly payments depend on the amount you use (see Table at left).

Each time you buy, you draw against your Fund, but each payment you make goes toward building up more and more credit. This means you can "add-on" new orders at any time.

Only Your Signature on "Add-On" Orders. You can "add-on" orders at any time for the unused amount in your fund with no money down. Just sign your order in the space provided. You may determine your monthly payment in the following way:

- Combine amount of your "add-on" order with your present
- See Table at left to find proper monthly payment for new
- If the monthly payment is the same or less than the amount 3 you are currently paying, no change in your monthly payment will be required.
- If monthly payment for your "add-on" order, plus your present unpaid balance is more than you currently pay, we will show the new monthly payment on your next statement.

Simplest, Easiest Plan. Because you get a detailed personal statement each month, you don't have to bother with bookkeeping. You can check accuracy in seconds. Because all shipping charges are prepaid and included in your account, there's nothing to figure. Your Credit Fund Plan is the last word in low-cost convenience.

> enjoy everything you need and want in electronics...today!

ALLIED EXTRA-SPECIAL VALUES!

Bonus Buys for Old-Time Friends...

Get-Acquainted Specials for New Customers

BE IN ON THE BIG SAVINGS! Make it a point to check all of the extra-special values you'll find in this folder—it's our way of saying, "Welcome"! We want you to experience the satisfaction, service and savings you always get as an Allied customer. Choose from the amazing values described here—in addition to the thousands of money-saving items you'll see in your regular Allied Catalog. It's a terrific opportunity!

ORDER NOW . . . AS AN ALLIED CUSTOMER
YOU'LL GET A FULL YEAR OF
EXCITING BARGAIN SALESBOOKS!



8" PM Speaker Value



2.15-oz. Magnet

Reg. \$2.30

Only

s **4** Qs

Enriches bass response of radio, phono, or your TV set. Imp., 3.2 ohms. Wt., 1½ lbs.

39 A 458-J....ONLY 1.98

1/4" Quality Phone Jack





3 for 30°

Popular 2-cond. type .6 oz. 39 A 495-J. Pkg. of 3. ONLY 30c

Pickering Stereo Cartridge

SAVE MORE THAN HALF!



Famous Model 371C

Was \$24.00 Now Only \$779

High-performance — response, ± 2 db from 18-22,000 cps. Diamond .0007" stylus. 2 oz.

73 RC 912-J ONLY 7.79

10-Piece Driver Set



Now

7 29

Multi-purpose tool set—6 nut driver, 3 screwdriver blades; handle, roll case. 1 lb.

46 N 463-J Was \$1.69...1.29

Save on Pocket-Size VOM

• 20,000 Ohms/Volt, DC Sensitivity

^{\$}**Q**95

• 10,000 Ohms/V., AC

Ranges (5): AC, 0-1000 v.; DC, 0-500 v.; Ohms, 0-5K-500K; DC, 0-50 ua, 0-250 ma. With battery, leads. 51/4 x 31/4 x 15/8". From Japan. 1 lb.

39 A 496-J.ONLY 9.95



ONLY AT ALLIED—AMAZING BUYS LIKE THESE!



Great 6-Transistor Pocket Radio Value

Only \$ 995

- 6 Transistors plus Diode and Thermistor Circuit
- · Fits in Pocket or Purse
- With All Accessories

Enjoy up-to-the-minute AM broadcasts. Features: crisp sounding 2" speaker; reliable thumbwheel controls for volume/off-on and tuning. With leather case, earphone, battery. 3½x2½x1¾6". 1¼ lbs.

24 SC 046 J. ONLY 9.95

6x9" Oval PM Speaker B



Reg. \$2.30 \$ 1 98 Now Only

For universal replacement use onew equipment. 1.47-oz. mag separate whizzer for clear highly, 3.2 ohms. 11/4 lbs.

58 A 441-J ONLY 1

Assorted Slide Switches



15 for \$129

SPECIAL PURCHASE

Quality switches at less than 9c apiecel Package includes SPST, SPDT, DPST and DPDT types rated to 3 amps. U.L. Approved. 8 oz.

39 A 360-J. Pkg. of 15. ONLY 1.29

Top-Quality Earphone Complete with Plug

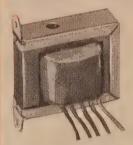


Now Only **59**^c

Value-Plusl Comfortably fitting earpiece, supplied with 36" cord, phone plug. Response, 50-500C cps. 500-3K ohms impedance. Fits most transistor portable radios. From Japan. Wt., 5 oz.

39 A 498-JONLY 59c

Filament Autotransformer



98c

Great for the Hobbyist and Serviceman

AT A LOW, LOW PRICE

Transformer with Primary for 117 VAC; Secondary: 6.3 v. @ 1 amp, 12 v. @ .5 amps, 18 v. @ .3 amps. Size: 115,6x2%x2".Wt., 1 lb.

39 A 295-J ONLY 98C

Tube Cooling Motor with Fan



Special Bargain Price

Well known Thor-Speedway motor and fan. Extends tube life and permits improved shielding. Great value for the Experimenter, tool Runs at 3210 rpm, N.L. ½x29½x2½. For 115 v., 60 cycle AC. 1½ lbs.

39 A 480-J ONLY 1.98

Assorted Hook-Up Wil

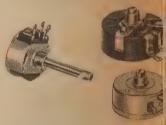


6 -25' for 49

Get all you need, now! Highciency stranded copper wi tinned and untinned. Asso colors, gauges and insulation.

39 A 497-J. 6 Coils... ONLY 4

Assorted Controls Bu



6 for 98

Radio-TV sericemen, builders, Hams—stock up nowl A top-value—6 wirewound cont at an amazingly low price 1 e

at an amazingly low price. 1 e (ohms): 500, 750, 1000, plus 3 o popular types. Wt., 4 oz.

39 A 493-J. Pkg. of 6. ONLY



Discover the real excitement of electronics with the world's finest do-it-yourself

knight-kits

SEE PAGES 1 THROUGH 68 OF THIS CATALOG

Specially designed to make you a kit-building expert even with no previous experience—each Knight-Kit comes to you in perfect order, and there's nothing else to buy, not even solder! Save money, have fun and enjoy professional performance with Knight-Kits. Save by doing the easy assembly yourself. Have fun as you learn about electronics. Enjoy professional performance from equipment expertly engineered. A favorite among hi-fi enthusiasts, radio Amateurs, technicians, and hobbyists—you, too, can always look to Knight-Kit for the newest and best!

USE THESE COUPONS TO SAVE EVEN MORE!

THIS VALUABLE SPECIAL COUPON ENTITLES YOU TO BIG SAVINGS ON THIS FINE KIT-BUILDING TOOL WITH YOUR PURCHASE OF ANY Knight-kit

FAMOUS WEN SOLDERING GUN
REGULAR \$4.66 VALUE! Rated at 100 watts.
Perfect for general soldering applications.
Just check box below and specify Stock No.
83 Y 055-J on your order blank.

Include BONUS BUY Wen Soldering Gun.



CLIP COUPON AND SEND IN WITH YOUR KNIGHT-KIT ORDER

THIS VALUABLE SPECIAL COUPON ENTITLES YOU TO

BIG SAVINGS ON THIS FINE KIT-BUILDING TOOL

WITH YOUR PURCHASE OF ANY Knight-kit

98c

with your

WALL SOLDERING IRON
REGULAR \$1.98 VALUE! Penciltype 8" iron. Lightweight. Just
check box below and specify Stock
No. 83 Y 638 - J on order blank.

Include BONUS BUY Wall Iron.

CLIP COUPON AND SEND IN WITH YOUR KNIGHT-KIT ORDER

ONLY AT ALLIED—AMAZING BUYS LIKE THESE!



Great 6-Transistor Pocket Radio Value

Only \$995

- 6 Transistors plus Diode and Thermistor Circuit
- Fits in Pocket or Purse
- With All Accessories

Enjoy up-to-the-minute AM broadcasts. Features: crisp sounding 2" speaker; reliable thumbwheel controls for volume/off-on and tuning. With leather case, earphone, battery. 3½x2½x1¾6". 1¼ lbs.

24 SC 046 J. ONLY 9.95

6x9" Oval PM Speaker B

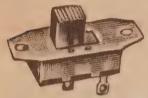


Reg. \$2.30 \$ 1 98 Now Only

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Top-Quality Earphone Complete with Plug



Now Only **59**^c

Value-Plusi Comfortably fitting earpiece, supplied with 36" cord, phone plug. Response, 50-5000 cps. 500-3K ohms impedance. Fits most transistor portable radios. From Japan. Wt., 5 oz.

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Filament Autotransformer



980

Great for the Hobbyist and Serviceman

AT A LOW, LOW PRICE

Transformer with Primary for 117 VAC; Secondary: 6.3 v. @ 1 amp, 12 v. @ .5 amps, 18 v. @ .3 amps. Size: 115,16X2%x2".Wt., 1 lb.

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Tube Cooling Motor with Fan



Special Bargain Price

Well known Thor-Speedway motor and fan. Extends tube life and permits improved shielding. Great value for the Experimenter, tool Runs at 3210 rpm, N.L. 5/8 x29/16 x23/6". For 115 v., 60 cycle AC. 11/4 lbs.

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Assorted Hook-Up Wir



 $6^{-25'}_{\text{Coils}}$ for 49

Get all you need, now! Highciency stranded copper win tinned and untinned. Assor colors, gauges and insulation.

39 A 497-J. 6 Coils...ONLY 4

Assorted Controls Buy



6 for 98

Radio-TV sericemen, builders, Hams—stock up now!

A top-value—6 wirewound cont at an amazingly low price. 1 et (ohms): 500, 750, 1000, plus 3 of popular types. Wt., 4 oz.

39-A 493-J. Pkg. of 6, ONLY 9



9-Volt Transistor Radio Batteries

Top Quality . Longer Life

for 540

An outstanding bargain! Fit most portable transistor radios. Replace Burgess 2U6. RCA VS323, Eveready 216, Zenith Z216, Neda and Ray-O-Vac 1604, others. From Japan. Pkg. of 3, 6 oz.

55J147-J.3FORONLY 59C

Unbeatable 5" PM Speaker Value



SAVE OVER ONE-FOURTH

Reg. \$1.30 \(\big) Now Only

5" speaker ruggedly built to ElA dimensions; rigid frame. Fully dust-proofed. Magnet, .68-oz. Imp., 3.2 ohms. 12 oz:

39 A 438-J ONLY 98c

Audio Cable at Special Bargain Price



No hi-fi system owner ever has enough of thesel Shielded cable assembly has molded phono pin plug at each end. No soldering, no wiring-just plug in and use. Here's your chance to load up now! Shpg. wt. 36" cable, 8 oz.; 18" cable, 4 oz.

39 A 484-J.36" Cable. ONLY 39C 39 A 483-J. 18" Cable. ONLY 29c

36" Cable

High-Fidelity Stereo Headphones



Only

Maximum comfort-aircushioned headband, rubber earpieces. 30-15,000 cps. 8-ohms/phone. With cables, 3-cond. plug. 2 lbs.

From Japan

59 D 064-J

Famous Knight-Kit Crystal Set Kit



Only

- . It's Fun to Build-Fun to Use!
- · Amazingly Clear Reception

Let some beginner get their start in electronics! Kit includes: all parts, pre-set crystal, wire, solder, baseboard. Less headphone, antenna.

83 Y 261-J. Shpg. wt., 1 lb......ONLY 2.95 83 Y 028-J.1000-Ohm Headphone, 11/1bs. ONLY1.07 83 Y 025-J. Antenna Kit. 11/2 lbs..... ONLY 1.03

Popular Accessories for Crystal Sets



90 S 536-J. Detector Mount Kit. Fig. A. Crystal holder, cat-whisker and hardware. Less crystal. 3 oz..... 18c

89 S 948-J. Mounted Economy Crystal. Fig. B. Genuine Galena crystal; in lead housing. 2 oz..................7c

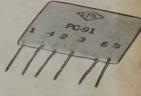
90 S 395-J. Meter-Tested Crystal. Not illus. 3 oz. . . . 15c

Ceramic Disc Capacitors

25 for 98c

What a buy-25 precision-made disc ceramics! Capacities from 5 to 1000 mmf; WVDC from 600-5000 v. 4 oz. 39 A 001-J. Package of 25.....ONLY 98c

Centralab PC-91 **Printed Circuits**



A complete pentode couplate PC-with resistors, capacitors and inductors bound to ceramic base. Wt., 6 oz. 39 A 566-J. Package of 3.....ONLY 39c

Handy Tube and Continuity Checker



Amazingly low priced! You can use this compact tester to quickly check radio-TV tubes; test continuity of coils, appliances, etc. With leads. For 110-120 v., 50-60 cycle AC. Shpg. wt., 1 lb.

39 A 499-J. List, \$4.95.....ONLY 1.69

2-LB. Box Hardware Assortment



A bargain box of screws, rivets, nuts, rubber grommets, eyelets, etc. Wt., 21/4 lbs.

39 A 328-J. 2-lb. Box....ONLY 88C

2-LB. Bargain Box of Washers



Only

A top buy for shop or home. Popular assortment-all sizes. 21/4 lbs.

39 A 398-J .. 69C

Wide Assortment of Tubular Capacitors



20 for 980

WVDC

Plastic-molded, ceramic-cased, Popular values. 39 A 386-J. Pkg. of 20. Wt., 10 oz..... ONLY 98C

Famous-Name Brand Recording Tape Special Buy!



As Low As

12-Lot

Stock up now-savel Every 7" reel of 1800ft. "Mylar" tape guaranteed splice-free and uniformly sensitive. Shpg. wt., 1 1/4 lbs. 80 R 899-J. 1-11,

EACH 1.78 12-or More, EACH 1.58

Only

"Phone-Talk" Telephone Amplifier



Meetings

· Portable, Battery-Operated

Fully Transistorized

· Has Battery-Saver Switch

Lets you listen to your telephone from any part of the room. Ideal for conferences; in the home-any number of people can listen in on one phone-leaves hands free. Has volume control and battery saver switch. Black and white plastic case. 41/4x41/8x23/4". With 9-v. battery. From Japan. Wt., 2 lbs.



Top-quality resistors in assorted values: 16-ohm, 10watt; 47-ohm, 5-watt; 2000-ohm, 7-watt; 7K-ohm, 10-

watt; 10K-ohm, 4- watt; plus 7 others. 1 lb. 39 A 488-J. Package of 12..... ONLY 98c

MORE LIFE EXTRA-SPECIAL VALUES!

(See the Preceding 5 Bargain-Packed Pages)



Sensational Stereo Demonstration **Record Package** of Three 33-1/3- 12" LP's

Check-out your stereo music system with these carefully planned test records . . . and enjoy a thrilling demonstration of superb stereo music recordings!

Allied's own 3-record package critically selected by our audio engineers to test every separate aspect and total performance of your stereo music system, easily and accurately. First record lets you make a complete check of equipment, and gives instructions for proper set-up. Second record demonstrates spectacular ability of stereo recordings to reproduce life-like sound: airplanes of all types, automobiles, etc. Third record contains musical passages to show the full-dimensional, breathtaking sound achievable by your system. Shpg. wt., 2 lbs. Package of 3—12" LP's—at Special Bargain Price order Stock No.

26 RR 009-J. Mfr's. No. CSDT ... ONLY 3.29

Bargain Assortment of Most-Used Terminals



25 for 340

Bakelite strips, 3/8" wide. Lug and solder types. 58 A 580-J. Package of 25. Wt., 3 oz......ONLY 34C



Sturdy plugs made of unbreakable, soft rubber. Simple to connect. 6 oz.

39 A 494-J. 3 for 19C



4" PM Replacement Speaker Value

Reg. \$1.13

Features precision centered voice coil and .68-oz. magnet. Imp., 3.2 ohms. 1/2 lb.

58 A 419-J ONLY 98C

50-Piece Paper Capacitor Assortment



100-600 WVDC Tubulars in Popular Values

-50 for 980



All are U.S.-made, wax-impregnated capacitors. Wide variety of capacity values, sizes. 12 oz.

39 A 442-J. 50 for ONLY 98C

24-Drawer All-Steel Cabinet

UNION U-24

Only

Plastic Drawers



Rugged, heavy-gauge welded "Stackmaster" cabinet. Has high-impact plastic, partitioned drawers, each 11/4x23/4x51/2". Cabinet is 11x121/2x6". 9 lbs.

86 NX 783-J. Was \$5.50..... NOW ONLY 4.95



100 N. WESTERN AVENUE, CHICAGO 80, ILLINOIS





Knight-kit Presents the KU-45 "Audio Center" Kit in a Complete Stereo Phono, Stereo Multiplex FM, AM Hi-Fi System

SAVE \$58.67

on the complete system

⁵289⁹⁵

\$15 Monthly

- Knight-Kit KU-45 32-Watt Stereo MX FM-AM Receiver
- Garrard AT6 Changer and Base Plus Plastic Cover
- Two Knight KN-820 12" Speakers and Two Knight KN-1286 Walnut Speaker Enclosures
- Knight KN-505X Cartridge

For More on the KU-45 Turn to page 4 of this catalog for specifications. A compact, distinctively styled, money-saving stereo hi-fi system that brings you a full 32 watts of audio power... the brilliant artistry of stereo records... the dazzling beauty and versatility of both stereo and conventional FM... plus the music, news and sports you enjoy on AM. What's more, it's complete with everything included. There's nothing else to buy.

Assembly of the KU-45 is fun, even if you have no kit-building experience. Point-to-point wiring is simplicity itself—and as a further convenience, we have pre-wired and aligned the FM "front end". KU-45 highlights: 32-watt stereo amplifier, wideband FM, and sensitive AM sections; built-in multiplex circuit; AFC for "lock-in" FM tuning; tape head inputs; recording outputs; and Dynamic Sideband Regulation that reduces the effects of FM over-modulation. You also receive an oiled walnut case for the KU-45.

AT6 record changer (with oiled walnut base and plastic cover) offers professional features to match the breathtaking 15-30,000 cps response of Knight's newest cartridge, the KN-505X. Expertly crafted KN-1286 shelf-type enclosures with oiled walnut veneer are a fine furniture addition to your home. Their vented-port design enhances the solid bass response of the Knight KN-820 dual-cone 12" speakers, Shpg. wt. 134 lbs.

22 HF 001-J. \$15 MonthlyONLY 289.95

22 HF 002-J. Stereo FM-AM System Only. As above, but less changer, base and cartridge. 118 lbs. \$12 Monthly.....ONLY 229.95